Met Glu Phe Lys Ala Val Gln Gln Val Gln Arg Leu Pro Phe Leu Ser 85 90 95

Ser Ser Asn Leu Ser Leu Asp Val Leu Arg Gly Asn Asp Glu Thr Ile 100 105 110

Gly Phe Glu Asp Ile Leu Asn Asp Pro Ser Gln Ser Glu Val Met Gly 115 125

Glu Pro His Leu Met Val Glu Tyr Lys Leu Gly Leu Leu 130 135 140

<210> 7896 <211> 306

<212> PRT

<213> Homo sapiens

<400> 7896

Met Asn Lys Leu Lys Ser Ser Gln Lys Asp Lys Val Arg Gln Phe Met

1 10 15

Ile Phe Thr Gln Ser Ser Glu Lys Thr Ala Val Ser Cys Leu Ser Gln 20 25 30

Asn Asp Trp Lys Leu Asp Val Ala Thr Asp Asn Phe Phe Gln Asn Pro 35 40 45

Glu Leu Tyr Ile Arg Glu Ser Val Lys Gly Ser Leu Asp Arg Lys Lys 50 55 60

Leu Glu Gln Leu Tyr Asn Arg Tyr Lys Asp Pro Gln Asp Glu Asn Lys 70 75 80

Ile Gly Ile Asp Gly Ile Gln Gln Phe Cys Asp Asp Leu Ala Leu Asp 85 90 95

Pro Ala Ser Ile Val Cys 100

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<210> 7897

<211> 543

<212> PRT

<213> Homo sapiens

<400> 7897

Met Gly Asn Ile Phe Ala Asn Leu Phe Lys Gly Leu Phe Gly Lys Lys

1 10 15

Glu Met Arg Ile Leu Met Val Gly Leu Asp Ala Ala Gly Lys Thr Thr
20 25 30

Ile Leu Tyr Lys Leu Lys Leu Gly Glu Ile Val Thr Thr Ile Pro Thr 35 40 45

Ile Gly Phe Asn Val Glu Thr Val Glu Tyr Lys Asn Ile Ser Phe Thr 50 55 60

Val Trp Asp Val Gly Gln Asp Lys Ile Arg Pro Leu Trp Arg His 70 75 80

Tyr Phe Gln Asn Thr Gln Gly Leu Ile Phe Val Val Asp Ser Asn Asp 85 90 95

Arg Glu Arg Val Asn Glu Ala Arg Glu Glu Leu Met Arg Met Leu Ala 100 105 110

Glu Asp Glu Leu Arg Asp Ala Val Leu Leu Val Phe Ala Asn Lys Gln
115 120 125

Asp Leu Pro Asn Ala Met Asn Ala Ala Glu Ile Thr Asp Lys Leu Gly
130 135 140

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      Leu His Ser Leu Arg
      His Arg Asn Trp Xaa Ile Gln Ala Thr Cys Ala

      145
      150
      155
      160

      Thr Ser Gly Asp Gly Leu Tyr Glu Gly Leu Asp Trp Leu Ser Asn Gln
      165
      170
      175

      Leu Arg Asn Gln Lys
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<210> 7898 <211> 420 <212> PRT <213> Homo sapiens

<400> 7898

Met Ser Lys Arg Gly Arg Gly Gly Ser Ser Gly Ala Lys Phe Arg Ile 1 5 10 15 Ser Leu Gly Leu Pro Val Gly Ala Val Ile Asn Cys Ala Asp Asn Thr

20 25 30

Gly Ala Lys Asn Leu Tyr Ile Ile Ser Val Lys Gly Ile Lys Gly Arg

35 40 45

Leu Asn Arg Leu Pro Ala Ala Gly Val Gly Asp Met Val Met Ala Thr
50 55 60

Val Lys Lys Gly Lys Pro Glu Leu Arg Lys Lys Val His Pro Ala Val 65 70 75 80

Val Ile Arg Gln Arg Lys Ser Tyr Arg Arg Lys Asp Gly Val Phe Leu 85 90 95

Tyr Phe Glu Asp Asn Ala Gly Val Ile Val Asn Asn Lys Gly Glu Met 100 105 110

Lys Gly Ser Ala Ile Thr Gly Pro Val Ala Lys Glu Cys Ala Asp Leu 115 120 125

Trp Pro Arg Ile Ala Ser Asn Ala Gly Ser Ile Ala 130 135 140

<210> 7899 <211> 324

<212> PRT

<213> Homo sapiens

<400> 7899

Met Ala Val Ala Arg Ala Gly Val Leu Gly Val Gln Trp Leu Gln Arg
1 5 10 15

Ala Ser Arg Asn Val Met Pro Leu Gly Ala Arg Thr Ala Ser His Met 20 25 30

Thr Lys Asp Met Phe Pro Gly Pro Tyr Pro Arg Thr Pro Glu Glu Arg
35 40 45

Ala Ala Ala Lys Lys Tyr Asn Met Arg Val Glu Asp Tyr Glu Pro
50 55 60

Tyr Pro Asp Asp Gly Met Gly Tyr Gly Asp Tyr Pro Lys Leu Pro Asp 65 70 75 80

Arg Ser Gln His Glu Arg Asp Pro Trp Tyr Ser Trp Asp Gln Pro Gly

85

90

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Leu Arg Leu Thr Gly Val Asn Arg Cys Thr Gly Thr
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<210> 7900

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<213> Homo sapiens
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Met Phe Phe Ser Ala Ala Leu Arg Ala Arg Ala Ala Gly Leu Thr Ala
His Trp Gly Arg His Val Arg Asn Leu His Lys Thr Ala Met Gln Asn
                                 25
Gly Ala Gly Gly Ala Leu Phe Val His Arg Asp Thr Pro Glu Asn Asn
Pro Asp Thr Pro Phe Asp Phe Thr Pro Glu Asn Tyr Lys Arg Ile Glu
                        55
Ala Ile Val Lys Asn Tyr Pro Glu Gly His Lys Ala Ala Ala Val Leu
Pro Val Leu Asp Leu Ala Gln Arg Gln Asn Gly Trp Leu Pro Ile Ser
Ala Met Asn Lys Val Ala Glu Val Leu Gln Val Pro Pro Met Arg Val
            100
                                 105
Tyr Glu Val Ala Thr Phe Tyr Thr Met Tyr Asn Arg Lys Pro Val Gly
                            120
Lys Tyr His Ile Gln Val Cys Thr Thr Thr Pro Cys Met Leu Arg Asn
                        135
                                             140
Ser Asp Ser Ile Leu Glu Ala Ile Gln Lys Lys Leu Gly Asn Lys Gly
                                         155
Trp Gly Asp Tyr Thr
                165
<210> 7901
<211> 360
<212> PRT
<213> Homo sapiens
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Met Asn Ser Ser Asp Glu Glu Lys Gln Leu Gln Leu Ile Thr Ser Leu
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Lys Glu Gln Ala Ile Gly Glu Tyr Glu Asp Leu Arg Ala Glu Asn Gln
Lys Thr Lys Glu Lys Xaa Asp Lys Ile Arg Gln Glu Arg Asp Glu Ala
Val Lys Lys Leu Glu Glu Phe Gln Lys Ile Ser His Met Xaa Ile Glu
                        55
Glu Val Asn Phe Met Gln Asn His Leu Glu Ile Glu Lys Thr Cys Arg
                    70
                                        75
Glu Ser Ala Glu Ala Leu Ala Thr Lys Leu Asn Lys Glu Asn Lys Thr
                                    90
Leu Lys Arg Ile Ser Met Leu Tyr Met Ala Lys Leu Gly Pro Asp Val
                                105
                                                     110
Ile Thr Glu Glu Ile Asn Xaa Xaa
        115
<210> 7902
<211> 303
<212> PRT
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<213> Homo sapiens <400> 7902 Met Val Glu Lys Lys Thr Ser Val Arg Ser Gln Asp Pro Gly Gln Arg 10 Arg Val Leu Asp Arg Ala Ala Arg Gln Arg Arg Ile Asn Arg Gln Leu 25 Glu Ala Leu Glu Asn Asp Asn Phe Gln Asp Asp Pro His Ala Gly Leu 40 45 Pro Gln Leu Gly Lys Arg Leu Pro Gln Phe Asp Asp Ala Asp Thr 55 Gly Lys Lys Lys Lys Thr Arg Gly Asp His Phe Lys Leu Arg Phe 65 70 75 Arg Lys Asn Phe Gln Ala Leu Leu Glu Glu Gln Asn Leu Ser Val Ala Glu Gly Leu Thr Thr 100 <210> 7903 <211> 303 <212> PRT <213> Homo sapiens <400> 7903 Met Ala Val Val Ser Ala Val Arg Trp Leu Gly Leu Arg Ser Arg Leu Gly Gln Pro Leu Thr Gly Arg Arg Ala Gly Leu Cys Glu Gln Ala Arg 25 Ser Cys Arg Phe Tyr Ser Gly Ser Ala Thr Leu Ser Lys Val Glu Gly 40 Thr Asp Val Thr Gly Ile Glu Glu Val Val Ile Pro Lys Lys Thr 55 Trp Asp Lys Val Ala Val Leu Gln Ala Leu Ala Ser Thr Val Asn Arg 70 75 Asp Thr Thr Ala Val Pro Tyr Val Phe Gln Asp Asp Pro Tyr Leu Met Pro Ala Lys His Ile 100 <210> 7904 <211> 303 <212> PRT <213> Homo sapiens <400> 7904 Met Gly Lys Gly Asp Pro Lys Lys Pro Arg Gly Lys Met Ser Ser Tyr Ala Phe Phe Val Gln Thr Cys Arg Glu Glu His Lys Lys Lys His Pro Asp Ala Ser Val Asn Phe Ser Glu Phe Ser Lys Lys Cys Ser Glu Arg 40 Trp Lys Thr Met Ser Ala Lys Glu Lys Gly Lys Phe Glu Asp Met Ala

Lys Ala Asp Lys Ala Arg Tyr Glu Arg Glu Met Lys Thr Tyr Ile Pro

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70
Pro Lys Gly Glu Thr Lys Lys Lys Phe Lys Asp Pro Asn Ala Pro Lys
                                     90
Arg Pro His Cys Cys
            100
<210> 7905
<211> 348
<212> PRT
<213> Homo sapiens
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Met Ala Glu Gly Asn His Arg Lys Lys Pro Leu Lys Val Leu Glu Ser
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Leu Gly Lys Asp Phe Leu Thr Gly Val Leu Asp Asn Leu Val Glu Gln
                                 25
Asn Val Leu Asn Trp Lys Glu Glu Glu Lys Lys Lys Tyr Tyr Asp Ala
Lys Thr Glu Asp Lys Val Arg Val Met Ala Asp Ser Met Gln Glu Lys
                        55
Gln Arg Met Ala Gly Gln Met Leu Leu Gln Thr Phe Phe Asn Ile Asp
Gln Ile Ser Pro Asn Lys Lys Ala His Pro Asn Met Glu Ala Gly Pro
                                     90
Pro Glu Ser Gly Glu Ser Thr Asp Ala Leu Lys Leu Cys Pro His Glu
                                105
Glu Phe Trp Asn
        115
<210> 7906
<211> 318
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<213> Homo sapiens
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Met Ala Glu Asp Ala Asp Met Arg Asn Glu Leu Glu Glu Met Gln Arg
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Arg Ala Asp Gln Leu Ala Asp Glu Ser Leu Glu Ser Thr Arg Arg Met
Leu Gln Leu Val Glu Glu Ser Lys Asp Ala Gly Ile Arg Thr Leu Val
Met Leu Asp Glu Gln Gly Glu Gln Leu Glu Arg Ile Glu Glu Gly Met
                        55
Asp Gln Ile Asn Lys Asp Xaa Xaa Glu Ala Glu Lys Asn Leu Thr Asp
                    70
                                        75
Leu Gly Lys Phe Cys Gly Leu Cys Val Cys Pro Xaa Thr Ser Leu Asn
                85
Gln Val Met Leu Thr Lys Ser Leu Gly Gln
<210> 7907
<211> 318
<212> PRT
<213> Homo sapiens
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<210> 7908 <211> 357 <212> PRT <213> Homo sapiens

<400> 7908

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 Ala
 Ala
 Ile
 Ala
 A

Arg Lys Arg Arg Gly Lys Xaa 115

<210> 7909 <211> 312 <212> PRT <213> Homo sapiens

<400> 7909

<210> 7910 <211> 363 <212> PRT <213> Homo sapiens

<400> 7910

Ile Asn Trp Thr Val Leu Tyr Arg Arg Lys His Lys Lys Gly Gln Ser 50 55 60

Glu Glu Ile Gln Lys Lys Arg Thr Arg Arg Ala Val Lys Phe Gln Arg 65 70 75 80

Ala Ile Thr Gly Ala Ser Leu Ala Asp Ile Met Ala Lys Arg Asn Gln
85 90 95

Lys Pro Glu Val Arg Lys Ala Gln Arg Glu Gln Ala Ile Arg Xaa Leu 100 105 110

Xaa Arg Xaa His Leu Ser Lys Arg Leu 115 120

<210> 7911 <211> 324 <212> PRT

<213> Homo sapiens

<400> 7911

Met Val Asn Pro Thr Val Phe Phe Asp Ile Ala Val Asp Gly Glu Pro

1 10 15

Leu Gly Arg Val Ser Phe Glu Leu Phe Ala Asp Lys Val Pro Lys Thr 20 25 30

Ala Glu Asn Phe Arg Ala Leu Ser Thr Gly Glu Lys Gly Phe Gly Tyr 35 40 45

Lys Gly Ser Cys Phe His Arg Ile Ile Pro Gly Phe Met Cys Gln Gly 50 55 60

Gly Asp Phe Thr Arg His Asn Gly Thr Gly Gly Lys Ser Ile Tyr Gly 65 70 75 80

Glu Gly Gln Pro Ala Phe Val Ile Lys Pro Ser Gln Arg Asn Leu Gly 85 90 95

Xaa Arg Asp Thr Ala Arg Xaa Xaa Xaa Arg Phe Gln

<210> 7912

<211> 495

<212> PRT

<213> Homo sapiens

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Met Val Asn Pro Thr Val Phe Phe Asp Ile Ala Val Asp Gly Glu Pro
                                    10
Leu Gly Arg Val Ser Phe Glu Leu Phe Ala Asp Lys Val Pro Lys Thr
                                25
Ala Glu Asn Phe Arg Ala Leu Ser Thr Gly Glu Lys Gly Phe Gly Tyr
                            40
Lys Gly Ser Cys Phe His Arg Ile Ile Pro Gly Phe Met Cys Gln Gly
Gly Asp Phe Thr Arg His Asn Gly Thr Gly Gly Lys Ser Ile Tyr Gly
                                        75
Glu Lys Phe Glu Asp Glu Asn Phe Ile Leu Lys His Thr Gly Pro Xaa
Ile Leu Ser Met Ala Asn Ala Gly Pro Asn Thr Asn Gly Ser Gln Phe
                                105
Phe Ile Cys Thr Ala Lys Thr Glu Trp Leu Asp Gly Lys His Val Val
                            120
Phe Gly Lys Val Lys Glu Gly Met Asn Ile Val Glu Ala Met Glu Arg
                        135
Phe Gly Ser Arg Asn Gly Lys Thr Ser Lys Lys Ile Thr Ile Ala Asp
                    150
Cys Gly Gln Leu Glu
                165
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<210> 7913

<211> 447

<212> PRT

<213> Homo sapiens

<400> 7913

115 120 125 Ala Asp Ile Asp Glv Asp Glv Gln Val Asp Tvr Glu Glu Phe Val Glu

Ala Asp Ile Asp Gly Asp Gly Gln Val Asn Tyr Glu Glu Phe Val Gln
130 135 140

Met Met Thr Ala Lys

145

<210> 7914

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<211> 375
<212> PRT
<213> Homo sapiens
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Met Ala Pro Ala Lys Lys Gly Gly Glu Lys Lys Lys Gly Arg Ser Ala
Ile Asn Glu Val Xaa Thr Arg Glu Tyr Thr Ile Asn Ile His Lys Arg
                                 25
Ile His Gly Val Gly Phe Lys Lys Arg Ala Pro Arg Ala Leu Lys Glu
Ile Arg Lys Phe Ala Met Lys Glu Met Gly Thr Pro Asp Val Arg Ile
                         55
Asp Thr Arg Leu Asn Lys Ala Val Trp Ala Lys Gly Ile Arg Asn Val
Pro Tyr Arg Ile Arg Val Arg Leu Ser Arg Lys Arg Asn Glu Asp Glu
                                     90
Asp Ser Pro Asn Lys Leu Tyr Thr Leu Val Thr Tyr Val Pro Val Thr
                                 105
Thr Phe Lys Asn Leu Gln Thr Val Asn Val Asp Glu Asn
        115
                             120
<210> 7915
<211> 303
<212> PRT
<213> Homo sapiens
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Met Ala Pro Ala Lys Lys Gly Gly Glu Lys Lys Lys Gly Arg Ser Ala
Ile Asn Glu Val Xaa Thr Arg Glu Tyr Thr Ile Asn Ile His Lys Arg
Ile His Gly Val Gly Phe Lys Lys Arg Ala Pro Arg Ala Leu Lys Glu
Ile Arg Lys Phe Ala Met Lys Glu Met Gly Thr Pro Asp Val Arg Ile
Asp Thr Arg Leu Asn Lys Ala Val Trp Ala Lys Gly Ile Arg Asn Val
Pro Tyr Arg Ile Arg Val Arg Leu Ser Arg Lys Arg Asn Glu Asp Glu
Gly Leu Ser Ile Leu
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<210> 7916
<211> 363
<212> PRT
<213> Homo sapiens
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Met Val Asp Met Met Asp Leu Pro Arg Ser Arg Ile Asn Ala Gly Met
Leu Ala Gln Phe Ile Asp Lys Pro Val Cys Phe Val Gly Arg Leu Glu
Lys Ile His Pro Thr Gly Lys Met Phe Ile Leu Ser Asp Gly Glu Gly
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 Lys
 Asn
 Gly
 Thr
 Ile
 Glu
 Leu
 Met
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 Asp
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 Glu
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 Ser

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<210> 7917 <211> 315 <212> PRT

<213> Homo sapiens

<400> 7917

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 Thr
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 Gly
 Tyr

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 Asp
 Phe
 Glu
 Leu
 Lys
 Thr
 Ala
 Glu
 Leu
 Pro
 Leu

 Lys
 Asn
 Gly
 Glu
 Val
 Leu
 Leu
 Glu
 Ala
 Leu
 Thr
 Val
 Asp
 Pro
 Pro
 Met
 Asp
 Thr
 Met
 Met
 Arg
 Val
 Ala
 Leu
 Leu
 Leu
 Lys
 Glu
 Glu
 Gly
 Asp
 Thr
 Met
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 Met
 Arg
 Val
 Ala
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 Arg
 Leu
 Lys
 Asp
 Thr
 Met
 Met

100 <210> 7918 <211> 477

<212> PRT <213> Homo sapiens

<400> 7918

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 Lys
 Asn
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 Gly
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 Ala
 Val
 Phe
 Ile
 Lys

 Ala
 Val
 His
 Val
 Lys
 Ala
 Glu
 Asp
 Glu
 Arg
 Ile
 Val
 Leu
 Val
 Asp

 Asn
 Lys
 Cys
 Lys
 Arg
 Ile
 Thr
 Ser
 Arg
 Ile
 Ile
 Arg
 Ile
 Ile
 Arg
 Ile
 Ile

115 120 Asn Lys Cys Tyr Thr Ala Val Val Pro Leu Val Tyr Gly Gly Glu Thr 135 Lys Met Val Glu Thr Ala Leu Thr Pro Asp Ala Cys Tyr Pro Asp 150 <210> 7919 <211> 477 <212> PRT <213> Homo sapiens <400> 7919 Met Lys Asn His Leu Leu Phe Trp Gly Val Leu Ala Val Phe Ile Lys Ala Val His Val Lys Ala Gln Glu Asp Glu Arg Ile Val Leu Val Asp Asn Lys Cys Lys Cys Ala Arg Ile Thr Ser Arg Ile Ile Arg Ser Ser 40 Glu Asp Pro Asn Glu Asp Ile Val Glu Arg Asn Ile Arg Ile Ile Val 55 Pro Leu Asn Asn Arg Glu Asn Ile Ser Asp Pro Thr Ser Pro Leu Arg 75 Thr Arg Phe Val Tyr His Leu Ser Asp Leu Cys Lys Lys Cys Asp Pro 85 Thr Glu Val Glu Leu Asp Asn Gln Ile Val Thr Ala Thr Gln Ser Asn 105 Ile Cys Asp Glu Asp Ser Ala Thr Glu Thr Cys Tyr Thr Tyr Asp Arg 120 Asn Lys Cys Tyr Thr Ala Val Val Pro Leu Val Tyr Gly Gly Glu Thr 135 Lys Met Val Glu Thr Ala Leu Thr Pro Asp Ala Cys Tyr Pro Asp 150 <210> 7920 <211> 432 <212> PRT <213> Homo sapiens <400> 7920 Met Ser Thr Lys Asn Phe Arg Val Ser Asp Gly Asp Trp Ile Cys Pro Asp Lys Lys Cys Gly Asn Val Asn Phe Ala Arg Arg Thr Ser Cys Asn Arg Cys Gly Arg Glu Lys Thr Thr Glu Ala Lys Met Met Lys Ala Gly 40 Gly Thr Glu Ile Gly Lys Thr Leu Ala Glu Lys Ser Arg Gly Leu Phe 55 Ser Ala Asn Asp Trp Gln Cys Lys Thr Cys Ser Asn Val Asn Trp Ala 70 Arg Arg Ser Glu Cys Asn Met Cys Asn Thr Pro Lys Tyr Ala Lys Leu 90 Glu Glu Arg Thr Gly Tyr Gly Gly Gly Phe Asn Glu Arg Glu Asn Val 105 Glu Tyr Ile Glu Arg Xaa Asn Leu Met Val Asn Met Met Ser Leu Asp

<400> 7923

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Val Lys Arg Xaa Asn Thr Glu Gly Lys Gln Leu Val Leu His Leu Tyr
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<210> 7921
<211> 348
<212> PRT
<213> Homo sapiens
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Met Ala Gly Val Leu Lys Lys Thr Thr Gly Leu Val Gly Leu Ala Val
Cys Asn Thr Pro His Glu Arg Leu Arg Ile Leu Tyr Thr Lys Ile Leu
                                25
Asp Val Leu Glu Glu Ile Pro Lys Asn Ala Ala Tyr Arg Lys Tyr Thr
                            40
Glu Gln Ile Thr Asn Glu Lys Leu Ala Met Val Lys Ala Glu Pro Asp
                        55
Val Lys Lys Leu Glu Asp Gln Leu Gln Gly Gly Gln Leu Glu Glu Val
Ile Leu Gln Ala Glu His Glu Leu Asn Leu Ala Arg Lys Met Arg Glu
Trp Lys Leu Trp Glu Pro Leu Val Glu Glu Pro Pro Ala Asp Gln Trp
            100
                                105
Lys Trp Pro Ile
        115
<210> 7922
<211> 312
<212> PRT
<213> Homo sapiens
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Met Ala Ser Lys Gly Leu Gln Asp Leu Lys Gln Gln Val Glu Gly Thr
Ala Gln Glu Ala Val Ser Ala Ala Gly Ala Ala Gln Gln Val Val
                                25
Asp Gln Ala Thr Glu Ala Gly Gln Lys Ala Met Asp Gln Leu Ala Lys
Thr Thr Gln Glu Thr Ile Asp Lys Thr Ala Asn Gln Ala Ser Asp Thr
Phe Ser Gly Ile Gly Lys Lys Phe Gly Leu Glu Leu Pro Leu Leu Pro
                                        75
Glu Gly Arg Pro Arg Gly Leu Ile Leu Val Gly Pro Gln Gly Pro Ser
Met Arg Leu Asp Phe Val Trp Trp
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<210> 7923
<211> 462
<212> PRT
<213> Homo sapiens
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Met Ala Ala Ser Arg Arg Leu Met Lys Glu Leu Glu Glu Ile Arg Lys Cys Gly Met Lys Asn Phe Arg Asn Ile Gln Val Asp Glu Ala Asn Leu 25 Leu Thr Trp Gln Gly Leu Ile Val Pro Asp Asn Pro Pro Tyr Asp Lys 40 Gly Ala Phe Arg Ile Glu Ile Asn Phe Pro Ala Glu Tyr Pro Phe Lys 55 Pro Pro Lys Ile Thr Phe Lys Thr Lys Ile Tyr His Pro Asn Ile Asp 75 Glu Lys Gly Gln Val Cys Leu Pro Val Ile Ser Ala Glu Asn Trp Lys Pro Ala Thr Lys Thr Asp Gln Val Ile Gln Ser Leu Ile Ala Leu Val 105 Asn Asp Pro Gln Pro Glu His Pro Leu Arg Ala Asp Leu Ala Glu Glu 115 120 Tyr Ser Lys Asp Arg Lys Lys Phe Cys Lys Asn Ala Glu Glu Phe Thr 135 Lys Lys Tyr Gly Glu Lys Arg Pro Val Asp <210> 7924 <211> 366 <212> PRT

<210> 7925

<211> 627

<212> PRT

<213> Homo sapiens

<213> Homo sapiens

<400> 7925

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Leu

<210> 7926

<211> 327

<212> PRT

<213> Homo sapiens

<400> 7926

Met Gly Gly Ala Gly Pro Glu Arg Ala Leu Ser Phe Arg Cys Cys Gly
1 10 15

Arg Xaa Met Ser Met Leu Arg Leu Gln Lys Arg Leu Ala Ser Ser Val 20 25 30

Leu Arg Cys Gly Lys Lys Lys Val Trp Leu Asp Pro Asn Glu Thr Asn 35 40 45

Glu Ile Ala Asn Ala Asn Ser Arg Gln Gln Ile Arg Lys Leu Ile Lys
50 55 60

Asp Gly Leu Ile Ile Arg Lys Pro Val Thr Val His Ser Arg Ala Arg
65 70 75 80

Cys Arg Lys Asn Thr Leu Ala Arg Arg Lys Gly Arg His Met Gly Ile 85 90 95

Gly Lys Arg Lys Gly Thr Ala Asn Ala Xaa Pro Ser Gly
100 105

<210> 7927

<211> 342

<212> PRT

<213> Homo sapiens

<400> 7927

Met Ala Gln Val Leu Phe Ser Arg Asn Met Arg Leu Asn Val Ala Leu $1 \\ 5 \\ 10 \\ 15 \\ Thr Phe Trp Arg Lys Arg Ser Ile Ser Glu Leu Val Ala Tyr Leu Leu$

2.0 25 Arg Ile Glu Asp Leu Gly Val Val Val Asp Cys Leu Pro Val Leu Thr Asn Cys Leu Gln Glu Glu Lys Gln Tyr Ile Ser Leu Gly Cys Cys Val 55 Asp Leu Leu Pro Leu Val Lys Ser Leu Leu Lys Ser Lys Phe Glu Glu 70 Tyr Val Ile Val Gly Leu Asn Trp Leu Gln Ala Val Ile Lys Arg Trp 85 90 Trp Ser Glu Leu Ser Ser Lys Thr Glu Ile Ile Asn Asp Gly Asn Ile 105 Gln Ile <210> 7928 <211> 351 <212> PRT <213> Homo sapiens <400> 7928 Met Ser Asn Lys Phe Leu Gly Thr Trp Lys Leu Val Ser Ser Glu Asn Phe Asp Asp Tyr Met Lys Ala Leu Gly Val Gly Leu Ala Thr Arg Lys Leu Gly Asn Leu Ala Lys Pro Thr Val Ile Ile Ser Lys Lys Gly Asp 40 Ile Ile Thr Ile Arg Thr Glu Ser Thr Phe Lys Asn Thr Glu Ile Ser 55 Phe Lys Leu Gly Gln Glu Phe Glu Glu Thr Thr Ala Asp Asn Arg Lys Thr Lys Ser Ile Val Thr Leu Gln Arg Gly Ser Leu Asn Gln Val Gln 90 Arg Trp Asp Gly Lys Glu Thr Thr Ile Lys Arg Ala Ser Glu Trp Glu 105 Asn Gly Ser Gly Met 115 <210> 7929 <211> 333 <212> PRT <213> Homo sapiens <400> 7929 Met Arg Ile Glu Lys Cys Tyr Phe Cys Ser Gly Pro Ile Tyr Pro Gly His Gly Met Met Phe Val Arg Asn Asp Cys Lys Val Phe Arg Phe Cys 25 Lys Ser Lys Cys His Lys Asn Phe Lys Lys Lys Arg Asn Pro Arg Lys Val Arg Trp Thr Lys Ala Phe Arg Lys Ala Ala Gly Lys Glu Leu Thr Val Asp Asn Ser Phe Glu Phe Glu Lys Arg Arg Asn Glu Pro Ile Lys 70 75 Tyr Gln Arg Glu Leu Trp Asn Lys Thr Ile Asp Ala Met Lys Arg Val

145

Glu Glu Ile Lys Gln Lys Arg Xaa Ala Lys Phe Ile Met Asn Arg 105 <210> 7930 <211> 393 <212> PRT <213> Homo sapiens <400> 7930 Met Asn Asp Thr Val Thr Ile Arg Thr Arg Lys Phe Met Thr Asn Arg Leu Leu Gln Arg Lys Gln Met Val Ile Asp Val Leu His Pro Gly Lys Ala Thr Val Pro Lys Thr Glu Ile Arg Glu Lys Leu Ala Lys Met Tyr Lys Thr Thr Pro Asp Val Ile Phe Val Phe Gly Phe Arg Thr His Phe Gly Gly Gly Lys Thr Thr Gly Phe Gly Met Ile Tyr Asp Ser Leu Asp 70 Tyr Ala Lys Lys Asn Glu Pro Lys His Arg Leu Ala Arg His Gly Leu Tyr Glu Lys Lys Lys Thr Ser Arg Lys Gln Arg Lys Glu Arg Lys Asn 105 Arg Met Lys Lys Val Arg Gly Thr Ala Lys Ala Asn Val Gly Ala Gly 120 Lys Lys Lys 130 <210> 7931 <211> 681 <212> PRT <213> Homo sapiens Met Ala Ala Gly Met Tyr Leu Glu His Tyr Leu Asp Ser Ile Glu Asn 10 Leu Pro Phe Glu Leu Gln Arg Asn Phe Gln Leu Met Arg Asp Leu Asp Gln Arg Thr Glu Asp Leu Lys Ala Glu Ile Asp Lys Leu Ala Thr Glu Tyr Met Ser Ser Ala Arg Ser Leu Ser Ser Glu Glu Lys Leu Ala Leu 55 Leu Lys Gln Ile Gln Glu Ala Tyr Gly Lys Cys Lys Glu Phe Gly Asp 70 Asp Lys Val Gln Leu Ala Met Gln Thr Tyr Glu Met Val Asp Lys His 85 90 Ile Arg Arg Leu Asp Thr Asp Leu Ala Arg Phe Glu Ala Asp Leu Lys

155

140

160

100 105 110

Glu Lys Gln Ile Glu Ser Ser Asp Tyr Asp Ser Ser Ser Lys Gly
115 120 125

Lys Lys Ser Arg Thr Gln Lys Glu Lys Lys Ala Ala Arg Ala Arg Ser

Lys Gly Xaa Asn Ser Asp Glu Glu Ala Pro Lys Thr Xaa Gln Lys Lys

135

Leu Lys Leu Val Arg Thr Ser Pro Glu Tyr Gly Xaa Pro Ser Val Thr Phe Gly Ser Val His Pro Ser Asp Val Leu Asp Met Pro Val Asp Pro 185 Asn Glu Pro Thr Tyr Cys Leu Cys His Gln Val Ser Tyr Gly Glu Met 200 Ile Gly Cys Asp Thr Leu Ile Val Pro Leu Ser Xaa Ser Ile Leu Pro 215 Val Trp Gly 225 <210> 7932 <211> 303 <212> PRT <213> Homo sapiens <400> 7932 Met Val His Leu Thr Thr Leu Leu Cys Lys Ala Tyr Arg Gly Gly His 10 Leu Thr Ile Arg Leu Ala Leu Gly Gly Cys Thr Asn Arg Pro Phe Tyr Arg Ile Val Ala Ala His Asn Lys Cys Pro Arg Asp Gly Arg Phe Val 40 Glu Gln Leu Gly Ser Tyr Asp Pro Leu Pro Asn Ser His Gly Glu Lys Leu Val Ala Leu Asn Leu Asp Arg Ile Arg His Trp Ile Gly Cys Gly 75 Ala His Leu Ser Lys Pro Met Glu Lys Leu Leu Gly Leu Ala Gly Phe 85 Phe Leu Cys Ile Leu 100 <210> 7933 <211> 375 <212> PRT <213> Homo sapiens <400> 7933 Met Ser Ala Ser Gln Asp Ser Arg Ser Arg Asp Asn Gly Pro Asp Gly Met Glu Pro Glu Gly Val Ile Glu Ser Asn Trp Asn Glu Ile Val Asp 25 Ser Phe Asp Asp Met Asn Leu Ser Glu Ser Leu Leu Arg Gly Ile Tyr 40 Ala Tyr Gly Phe Glu Lys Pro Ser Ala Ile Gln Gln Arg Ala Ile Leu 55 Pro Cys Ile Lys Gly Tyr Asp Val Ile Ala Gln Ala Gln Ser Gly Thr 70

Gly Lys Thr Ala Thr Phe Ala Ile Ser Ile Leu Gln Gln Ile Glu Leu

Asp Leu Lys Ala Thr Gln Ala Leu Val Leu Ala Pro Thr Arg Glu Leu 100 105 110

120

Ala Gln Gln Ile Gln Lys Val Val Met Ala Leu Leu Trp

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<210> 7934
<211> 324
<212> PRT
<213> Homo sapiens
<400> 7934
Met Ser Ala Ser Gln Asp Ser Arg Ser Arg Asp Asn Gly Pro Asp Gly
                                     10
Met Glu Pro Glu Gly Val Ile Glu Ser Asn Trp Asn Glu Ile Val Asp
Ser Phe Asp Asp Met Asn Leu Ser Glu Ser Leu Leu Arg Gly Ile Tyr
Ala Tyr Gly Phe Glu Lys Pro Ser Ala Ile Gln Gln Arg Ala Ile Leu
Pro Cys Ile Lys Gly Tyr Asp Val Ile Ala Gln Ala Gln Ser Gly Thr
                                         75
Gly Lys Thr Ala Thr Phe Ala Ile Ser Ile Leu Gln Gln Ile Glu Leu
                85
Asp Leu Lys Ala Thr Gln Xaa Phe Ser Gly His Phe
            100
                                 105
<210> 7935
<211> 321
<212> PRT
<213> Homo sapiens
<400> 7935
Met Asp Pro Ser Gly Val Lys Val Leu Glu Thr Ala Glu Asp Ile Gln
Glu Arg Arg Gln Gln Val Leu Asp Arg Tyr His Arg Phe Lys Glu Leu
Ser Thr Leu Arg Arg Gln Lys Leu Glu Asp Ser Tyr Arg Phe Gln Phe
                            40
Phe Gln Arg Asp Ala Glu Glu Leu Glu Lys Trp Ile Gln Glu Lys Leu
                        55
Gln Ile Ala Ser Asp Glu Asn Tyr Lys Asp Pro Thr Asn Leu Gln Gly
                    70
Lys Leu Gln Lys His Gln Ala Phe Glu Ala Glu Val Gln Ala Asn Ser
Gly Ala Ile Val Lys Leu Asp Glu Leu Glu Thr
            100
<210> 7936
<211> 318
<212> PRT
<213> Homo sapiens
<400> 7936
Met Tyr Asn Thr Val Trp Asn Met Glu Asp Leu Asp Leu Glu Tyr Ala
                                    10
Lys Thr Asp Ile Asn Cys Gly Thr Asp Leu Met Phe Tyr Ile Glu Met
Asp Pro Pro Ala Leu Pro Pro Lys Pro Pro Lys Pro Thr Thr Val Ala
```

35 40 Asn Asn Gly Met Asn Asn Asn Xaa Ser Leu Gln Asp Ala Glu Trp Tyr Trp Gly Asp Ile Ser Arg Glu Glu Val Asn Glu Lys Leu Arg Asp Thr 70 75 Ala Asp Gly Thr Phe Leu Val Arg Asp Ala Ser Thr Lys Met His Gly 85 Asp Tyr Thr Leu Thr Leu Gly Lys Gly Lys 100 <210> 7937 <211> 309 <212> PRT <213> Homo sapiens <400> 7937 Met Tyr Thr Ala Tyr His Tyr Val Ile Leu Val Ile Ala Pro Val Gly 10 Ser Pro Gly Asp Glu Phe Cys Lys Gln Arg Leu Pro Gln Leu Asn Ser Lys Asp Asn Lys Phe Leu Thr Cys Thr Glu Glu Asp Gly Val Leu Val

35 40 45 Tyr His His Ala Gln Asp Val Ile Leu Glu Val Ile Tyr Thr Asp Pro

Val Asp Leu Ser Leu Gly Thr Val Ala Glu Ile Thr Gly His Gln Leu

Met Ser Xaa Ser Thr Ala Asn Ala Lys Lys Asp Pro Ser Cys Lys Thr

<210> 7938

<211> 351 <212> PRT

<213> Homo sapiens

85

Cys Asn Ile Ser Val Gly Arg 100

<400> 7938

 Met
 Lys
 Phe
 Val
 Tyr
 Lys
 Glu
 Glu
 His
 Pro
 Phe
 Glu
 Lys
 Arg
 Ser

 Glu
 Gly
 Glu
 Lys
 Ile
 Arg
 Lys
 Lys
 Tyr
 Pro
 Asp
 Arg
 Val
 Pro
 Val
 Pro
 Val
 Ile
 Arg
 Ile
 Ile

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<210> 7939
<211> 318
<212> PRT
<213> Homo sapiens
<400> 7939
Met Pro Cys Phe Ser Leu Ser Thr Met Ser Phe His Pro Pro Val Pro
                                    10
Gln Trp Val Ser Cys Thr Arg Asn Thr Met Lys Lys Thr Ser Phe Ser
Thr Leu Pro Thr Val Thr Lys Val Ser Thr Val Cys Glu Ala Ala Ala
Pro Glu Leu Glu Gly Gly Leu Ile Leu Gln Arg Glu Arg Trp Pro Pro
                        55
Phe Leu Xaa Xaa Pro Pro Pro Ser Ser Ser Asn Thr Thr Ser Leu Ile
                    70
                                        75
Gln Asp Arg His Phe Leu Met Phe Val Ala Phe Ser Pro Ala Ser Leu
                85
Arg Arg Gly Asn Gly Gly Val Gly Ile Leu
<210> 7940
<211> 351
<212> PRT
<213> Homo sapiens
<400> 7940
Met Lys Phe Val Tyr Lys Glu Glu His Pro Phe Glu Lys Arg Arg Ser
Glu Gly Glu Lys Ile Arg Lys Lys Tyr Pro Asp Arg Val Pro Val Ile
Val Glu Lys Ala Pro Lys Ala Arg Ile Gly Asp Leu Asp Lys Lys
Tyr Leu Val Pro Ser Asp Leu Thr Val Gly Gln Phe Tyr Phe Leu Ile
Arg Lys Arg Ile His Leu Arg Ala Glu Asp Ala Leu Phe Phe Val
                    70
                                        75
Asn Asn Val Ile Pro Pro Thr Ser Ala Thr Met Gly Gln Leu Tyr Gln
                                    90
Glu His His Glu Glu Asp Phe Phe Leu Tyr Ile Ala Tyr Ser Asp Glu
                                105
Ser Val Tyr Gly Leu
        115
<210> 7941
<211> 375
<212> PRT
<213> Homo sapiens
<400> 7941
Met Pro Pro Lys Asp Asp Lys Lys Lys Asp Ala Gly Lys Ser Ala
Lys Lys Asp Lys Asp Pro Val Asn Lys Ser Gly Gly Lys Ala Lys Lys
            20
```

<210> 7942 <211> 393 <212> PRT

<213> Homo sapiens

<400> 7942

Met Cys Asn Leu Ser Leu Ile Thr Val Glu Gln Ile Ser Leu Thr Gln

1 5 10 15

Ile Thr Arg Glu Gly Lys Gly Ala Ser Ala Arg Asn Thr Asn Leu Phe
20 25 30

Leu Phe Cys Phe Gly Glu Gln Lys Trp Ser Lys Gly Lys Val Arg Asp
35 40 45

Lys Leu Asn Asn Leu Val Leu Phe Asp Lys Ala Thr Tyr Asp Lys Leu
50 55 60

Cys Lys Glu Val Pro Asn Tyr Lys Leu Ile Thr Pro Ala Val Val Ser 65 70 75 80 Glu Arg Leu Lys Ile Arg Gly Ser Leu Ala Arg Ala Ala Leu Gln Glu

Leu Leu Ser Lys Gly Leu Ile Lys Leu Val Ser Lys His Arg Ala Gln
100 105 110

Val Ile Tyr Thr Arg Asn Thr Lys Gly Gly Asp Ala Pro Ala Ala Gly
115 120 125

Glu Asp Ala 130

<210> 7943 <211> 447

<212> PRT

<213> Homo sapiens

<400> 7943

Leu Ser Gly Lys Lys Phe Gly Asn Pro Gly Glu Lys Leu Val Lys Lys Lys Trp Asn Leu Asp Glu Leu Pro Lys Phe Glu Lys Asn Phe Tyr Gln 100 105 Glu His Pro Asp Leu Ala Arg Arg Thr Ala Gln Glu Val Glu Thr Tyr 120 Arg Arg Ser Lys Glu Ile Thr Val Arg Gly His Asn Cys Pro Xaa Xaa 135 Val Leu Xaa Phe Leu 145 <210> 7944 <211> 516 <212> PRT <213> Homo sapiens <400> 7944 Met Ala Ser Asn Phe Lys Lys Ala Asn Met Ala Ser Ser Ser Gln Arg Lys Arg Met Ser Pro Lys Pro Glu Leu Thr Glu Glu Gln Lys Gln Glu Ile Arg Glu Ala Phe Asp Leu Phe Asp Ala Asp Gly Thr Gly Thr Ile

40

70

Asp Val Lys Glu Leu Lys Val Ala Met Arg Ala Leu Gly Phe Glu Pro

Lys Lys Glu Glu Ile Lys Lys Met Ile Ser Glu Ile Asp Lys Glu Gly

Thr Gly Lys Met Asn Phe Gly Asp Phe Leu Thr Val Met Thr Gln Lys

Met Ser Glu Lys Xaa Thr Lys Glu Glu Ile Leu Lys Ala Phe Lys Leu

75

<210> 7945 <211> 318 <212> PRT <213> Homo sapiens

<400> 7945

 Met
 Pro
 Phe
 Leu
 Asp
 Ile
 Gln
 Lys
 Arg
 Phe
 Gly
 Leu
 Asn
 Ile
 Asp
 Arg

 1
 5
 5
 10
 15
 15

 Trp
 Leu
 Thr
 Ile
 Gln
 Ser
 Gly
 Gln
 Pro
 Tyr
 Lys
 Met
 Ala
 Gly
 Arg

 20
 25
 30
 30
 30
 30
 30
 30
 30
 40
 45
 45
 11e
 Gly
 Gly
 45
 45
 45
 11e
 Gly
 Asp
 Asp
 Phe
 Val
 Val
 50
 55
 60
 60
 50
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Glu Cys Leu Leu Arg Gln Lys Thr Met Arg Arg Ala Gly Thr Ile Arg 65 70 75 80

Lys Gln Arg Asp Lys Leu Ile Lys Glu Gly Lys Tyr Thr Pro Pro Pro 85 90 95

His His Ile Gly Lys Gly Glu Pro Arg Pro

<210> 7946 <211> 333 <212> PRT <213> Homo sapiens

(213) nomo sapiem

<400> 7946

 Met
 Ile
 Asn
 Ile
 Ser
 His
 Val
 Trp
 Cys
 Cys
 Gly
 Glu
 Met
 Lys
 Ala

 1
 5
 1
 5
 1
 10
 10
 10
 15
 15

 Ile
 Glu
 Asp
 Gly
 Asn
 Leu
 Glu
 Glu
 Glu
 Glu
 Val
 Arg
 Arg
 Lys
 Arg
 Pro
 Pro
 Ala
 Glu
 Lys
 Leu

 Ser
 Pro
 Asn
 Pro
 Pro
 <

<210> 7947 <211> 387 <212> PRT <213> Homo sapiens

<400> 7947

 Met
 Ala
 Lys
 Ser
 Leu
 Arg
 Ser
 Lys
 Trp
 Lys
 Arg
 Lys
 Arg
 Ala
 Glu

 Lys
 Arg
 Lys
 Asn
 Ala
 Pro
 Lys
 Glu
 Ala
 Ser
 Arg
 Leu
 Lys
 Ser
 Ile

 Leu
 Lys
 Leu
 Asp
 Gly
 Asp
 Val
 Leu
 Met
 Lys
 Asp
 Val
 Ile
 Asp
 Asp
 Ile
 Ile
 Asp
 Ile
 Ile

<210> 7948 <211> 324

Trp

50

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<212> PRT
<213> Homo sapiens
<400> 7948
Met Ala Asp Pro Arg Val Arg Gln Ile Lys Ile Lys Thr Gly Val Val
Lys Arg Leu Val Lys Glu Lys Val Met Tyr Glu Lys Glu Ala Lys Gln
Gln Glu Glu Lys Ile Glu Lys Met Arg Ala Glu Asp Gly Glu Asn Tyr
                            40
Asp Ile Lys Lys Gln Ala Glu Ile Leu Gln Glu Ser Arg Met Met Ile
Pro Asp Cys Gln Arg Arg Leu Glu Ala Ala Tyr Leu Asp Leu Gln Arg
                                         75
Ile Leu Glu Asn Glu Lys Asp Leu Glu Glu Ala Glu Glu Tyr Lys Glu
                                     90
Ala Arg Leu Val Leu Asp Ser Val Lys Leu Glu Ala
            100
<210> 7949
<211> 333
<212> PRT
<213> Homo sapiens
<400> 7949
Met Val Arg Met Asn Val Leu Ala Asp Ala Leu Lys Ser Ile Asn Asn
Ala Glu Lys Arg Gly Lys Arg Gln Val Leu Ile Arg Pro Cys Ser Lys
Val Ile Val Arg Phe Leu Thr Val Met Met Lys His Gly Tyr Ile Gly
Glu Phe Glu Ile Ile Asp Asp His Arg Ala Gly Lys Ile Val Val Asn
                        55
Leu Thr Gly Arg Leu Asn Lys Xaa Gly Val Gln Trp His Asp Leu Gly
Tyr Cys Asn Leu Cys Leu Pro Gly Ser Ser Asp Ser Pro Ala Ser Ala
                85
                                    90
Ser Leu Val Ala Glu Ile Thr Val Trp Gly Asp Gln Pro Gln Ile
            100
                                105
<210> 7950
<211> 396
<212> PRT
<213> Homo sapiens
<400> 7950
Met Val Arg Met Asn Val Leu Ala Asp Ala Leu Lys Ser Ile Asn Asn
Ala Glu Lys Arg Gly Lys Arg Gln Val Leu Ile Arg Pro Cys Ser Lys
Val Ile Val Arg Phe Leu Thr Val Met Met Lys His Gly Tyr Ile Gly
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Glu Phe Glu Ile Ile Asp Asp His Arg Ala Gly Lys Ile Val Val Asn

Leu Thr Gly Arg Leu Asn Lys Cys Gly Val Ile Ser Pro Arg Phe Asp Val Gln Leu Lys Asp Leu Glu Lys Trp Gln Asn Asn Leu Leu Pro Ser 90 Arg Gln Phe Gly Phe Ile Val Leu Thr Thr Gln Leu Ala Ser Trp Thr 105 Met Lys Lys Gln Asp Glu Asn Thr Gln Glu Glu Asn Pro Gly Ile Leu Phe Leu Gly Met 130 <210> 7951 <211> 465 <212> PRT <213> Homo sapiens <400> 7951 Met Val Ala Arg Lys Gly Gln Lys Ser Pro Arg Phe Arg Arg Val Xaa 10 Cys Phe Leu Arg Leu Gly Arg Ser Thr Leu Leu Glu Leu Glu Pro Ala Gly Arg Pro Cys Ser Gly Arg Thr Arg His Arg Ala Leu His Arg Arg Leu Val Ala Cys Val Thr Val Ser Ser Arg Arg His Arg Lys Glu Ala Gly Arg Gly Arg Ala Glu Ser Phe Ile Ala Val Gly Met Ala Ala Pro 75 Ser Met Lys Glu Arg Gln Val Cys Trp Gly Ala Arg Asp Glu Tyr Trp Lys Cys Leu Asp Glu Asn Leu Glu Asp Ala Ser Gln Cys Lys Leu Arg Ser Ser Phe Glu Ser Ser Cys Pro Gln Gln Trp Ile Lys Tyr Phe 115 120 Asp Lys Arg Arg Asp Tyr Leu Lys Phe Lys Glu Lys Phe Glu Ala Gly 135 Gln Phe Glu Pro Ser Glu Thr Thr Ala Lys Ser 150 <210> 7952 <211> 381 <212> PRT <213> Homo sapiens <400> 7952 Met Ile Val Ser Ser Ala Leu Met Ile Trp Lys Gly Leu Ile Val Leu 10 Thr Gly Ser Glu Ser Pro Ile Val Val Leu Ser Gly Ser Met Glu Pro Ala Phe His Arg Gly Asp Leu Leu Phe Leu Thr Asn Phe Arg Glu

Asp Pro Ile Arg Ala Gly Glu Ile Val Val Phe Lys Val Glu Gly Arg

Asp Ile Pro Ile Val His Arg Val Ile Lys Val His Glu Lys Asp Asn

Gly Asp Ile Lys Phe Leu Thr Lys Gly Asp Asn Asn Glu Val Asp Asp 85 90 95

Arg Gly Leu Tyr Lys Glu Gly Gln Asn Trp Leu Glu Lys Lys Asp Val 100 105 110

Val Gly Arg Ala Arg Gly Phe Leu Pro Tyr Val Val Trp Ser Pro 115 120 125

<210> 7953

<211> 435

<212> PRT <213> Homo sapiens

<400> 7953

Met Lys Phe Asn Pro Phe Val Thr Ser Asp Arg Ser Lys Asn Arg Lys

1 10 15

Arg His Phe Asn Ala Pro Ser His Ile Arg Arg Lys Ile Met Ser Ser 20 25 30

Pro Leu Ser Lys Glu Leu Arg Gln Lys Tyr Asn Val Arg Ser Met Pro 35 40 45

Ile Arg Lys Asp Asp Glu Val Gln Val Val Arg Gly His Tyr Lys Gly 50 55 60

Gln Gln Ile Gly Lys Val Val Gln Val Tyr Arg Lys Lys Tyr Val Ile 65 70 75 80

Tyr Ile Glu Arg Val Gln Arg Glu Lys Ala Asn Gly Thr Thr Val His
85 90 95

Val Gly Ile His Pro Ser Lys Val Val Ile Thr Arg Leu Lys Leu Asp 100 105 110

Lys Asp Arg Lys Lys Ile Leu Glu Arg Lys Ala Lys Ser Arg Gln Val 115 120 125

Gly Lys Glu Lys Gly Lys Tyr Lys Glu Glu Thr Ile Glu Lys Met Gln 130 135 140

Glu 145

<210> 7954

<211> 384

<212> PRT

<213> Homo sapiens

<400> 7954

Met Glu Ser Lys Glu Glu Arg Ala Leu Asn Asn Leu Ile Val Glu Asn 1 5 10 15

Val Asn Gln Glu Asn Asp Glu Lys Asp Glu Lys Glu Gln Val Ala Asn 20 25 30

Lys Gly Glu Pro Leu Ala Leu Pro Leu Xaa Xaa Xaa Glu Tyr Cys Val 35 40 45

Pro Arg Gly Asn Arg Arg Phe Arg Val Arg Gln Pro Ile Leu Gln
50 55 60

Tyr Arg Trp Asp Met Met His Arg Leu Gly Glu Pro Gln Ala Arg Met 65 70 75 80

Xaa Glu Glu Asn Met Glu Arg Ile Gly Glu Glu Val Arg Gln Leu Met 85 90 95

Glu Lys Leu Arg Glu Lys Gln Leu Ser His Ser Leu Arg Ala Val Ser 100 105 110 Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Xaa Met Pro 115 120 125

<210> 7955

<211> 384

<212> PRT

<213> Homo sapiens

<400> 7955

Met Glu Ser Lys Glu Glu Arg Ala Leu Asn Asn Leu Ile Val Glu Asn 1 5 10 15

Val Asn Gln Glu Asn Asp Glu Lys Asp Glu Lys Glu Gln Val Ala Asn 20 25 30

Lys Gly Glu Pro Leu Ala Leu Pro Leu Xaa Xaa Xaa Glu Tyr Cys Val 35 40 45

Pro Arg Gly Asn Arg Arg Phe Arg Val Arg Gln Pro Ile Leu Gln 50 55 60

Tyr Arg Trp Asp Met Met His Arg Leu Gly Glu Pro Gln Ala Arg Met 65 70 75 80

Xaa Glu Glu Asn Met Glu Arg Ile Gly Glu Glu Val Arg Gln Leu Met 85 90 95

Glu Lys Leu Arg Glu Lys Gln Leu Ser His Ser Leu Arg Ala Val Ser 100 105 110

Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Xaa Met Pro 115 120 125

<210> 7956

<211> 399

<212> PRT

<213> Homo sapiens

<400> 7956

Met Ser Gly Gly Gly Thr Glu Thr Pro Val Gly Cys Glu Ala Ala Pro

1 10 15

Gly Gly Gly Ser Lys Lys Arg Asp Ser Leu Gly Thr Ala Gly Ser Ala 20 25 30

His Leu Ile Ile Lys Asp Leu Gly Glu Ile His Ser Arg Leu Leu Asp
35 40 45

His Arg Pro Val Ile Gln Gly Glu Thr Arg Tyr Phe Val Lys Glu Phe 50 55 60

Glu Glu Lys Arg Gly Leu Arg Glu Met Arg Val Leu Glu Asn Leu Lys
65 70 75 80

Asn Met Ile His Glu Thr Asn Glu His Thr Leu Pro Lys Cys Arg Asp 85 90 95

Thr Met Arg Asp Ser Leu Ser Gln Val Leu Gln Arg Leu Gln Ala Ala 100 105 110

Asn Asp Ser Val Cys Arg Leu Gln Gln Arg Glu Gln Glu Arg Lys Arg
115 120 125

Phe Ile Val Thr Thr

130

<210> 7957

<211> 495

<212> PRT

<213> Homo sapiens

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<213> Homo sapiens
<400> 7957
Met Ala Ser Gly Val Gln Val Ala Asp Glu Val Cys Arg Ile Phe Tyr
Asp Met Lys Val Arg Lys Cys Ser Thr Pro Glu Glu Ile Lys Lys Arg
                                25
Lys Lys Ala Val Ile Phe Cys Leu Ser Ala Asp Lys Lys Cys Ile Ile
                            40
Val Glu Glu Gly Lys Glu Ile Leu Val Gly Asp Val Gly Val Thr Ile
Thr Asp Pro Phe Lys His Phe Val Gly Met Leu Pro Glu Lys Asp Cys
                                         75
Arg Tyr Ala Leu Tyr Asp Ala Ser Phe Glu Thr Lys Glu Ser Arg Lys
                                     90
Glu Glu Leu Met Phe Phe Leu Trp Ala Pro Glu Leu Ala Pro Leu Lys
                                105
Ser Lys Met Ile Tyr Ala Ser Ser Lys Asp Ala Ile Lys Lys Lys Phe
                            120
Gln Gly Ile Lys His Glu Cys Gln Ala Asn Gly Pro Glu Asp Leu Asn
                        135
Arg Ala Cys Ile Ala Glu Lys Leu Gly Gly Ser Leu Ile Val Ala Phe
                    150
                                         155
Glu Gly Cys Pro Val
                165
<210> 7958
<211> 378
<212> PRT
<213> Homo sapiens
<400> 7958
Met Ala Ala Gly Glu Leu Glu Gly Gly Lys Pro Leu Ser Gly Leu Leu
Asn Ala Leu Ala Gln Asp Thr Phe His Gly Tyr Pro Gly Ile Thr Glu
                                25
Glu Leu Leu Arg Ser Gln Leu Tyr Pro Glu Val Pro Pro Glu Glu Phe
                            40
Arg Pro Phe Leu Ala Lys Met Arg Gly Ile Leu Lys Ser Ile Ala Ser
Ala Asp Met Asp Phe Asn Gln Leu Glu Ala Phe Leu Thr Ala Gln Thr
                    70
                                        75
Lys Lys Gln Gly Gly Ile Thr Ser Asp Gln Ala Ala Val Ile Ser Lys
                                    90
Phe Trp Lys Ser His Lys Thr Lys Ile Arg Glu Ser Leu Met Asn Gln
                                105
Ser Arg Trp Asn Ser Gly Leu Arg Gly Xaa Glu Leu Glu Ser
                            120
                                                125
<210> 7959
<211> 378
<212> PRT
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<400> 7959 Met Lys Ala Ser Gly Thr Leu Arg Glu Tyr Lys Val Val Gly Arg Cys Leu Pro Thr Pro Lys Cys His Thr Pro Pro Leu Tyr Arg Met Arg Ile 25 Phe Ala Pro Asn His Val Val Ala Lys Ser Arg Phe Trp Tyr Phe Val Ser Gln Leu Lys Lys Met Lys Lys Ser Ser Gly Glu Ile Val Tyr Cys Gly Gln Val Phe Glu Lys Ser Pro Leu Arg Val Lys Asn Phe Gly Ile 70 Trp Leu Arg Tyr Asp Ser Arg Ser Gly Thr His Asn Met Tyr Arg Glu Tyr Arg Asp Leu Thr Thr Ala Ala Leu Ser Pro Ser Ala Thr Glu Thr 105 Trp Val Pro Gly Thr Ala Pro Glu Pro Thr Pro Phe Arg Ser 120

<210> 7960 <211> 366 <212> PRT

<213> Homo sapiens

<400> 7960

Met Gln Leu Lys Pro Met Glu Ile Asn Pro Glu Met Leu Asn Lys Val 10 Leu Ser Arg Leu Gly Val Ala Gly Gln Trp Arg Phe Val Asp Val Leu 25 Gly Leu Glu Glu Ser Leu Gly Ser Val Pro Ala Pro Ala Cys Ala Leu Leu Leu Phe Pro Leu Thr Ala Gln His Glu Asn Phe Arg Lys Lys Gln Ile Glu Glu Leu Lys Phe Ser Cys Trp Ala Val Arg Xaa Asn Ser Ser Xaa Ser Ser Ala Val Pro Arg Val Cys Leu Leu Gln Gln 90 Cys Leu Asp Gly Thr Asp Pro Gly Thr Leu Phe Gln Pro Pro Thr Ala

105 Leu Arg Phe Pro Leu Arg Leu Pro His Leu 120

<210> 7961 <211> 342 <212> PRT <213> Homo sapiens

<400> 7961 Met Gln Leu Lys Pro Met Glu Ile Asn Pro Glu Met Leu Asn Lys Val Leu Ser Arg Leu Gly Val Ala Gly Gln Trp Arg Phe Val Asp Val Leu Gly Leu Glu Glu Ser Leu Gly Ser Val Pro Ala Pro Ala Cys Ala

Leu Leu Leu Phe Pro Leu Thr Ala Gln His Glu Asn Phe Arg Lys

50 55 60 Lys Gln Ile Glu Glu Leu Lys Phe Ser Cys Trp Ala Val Arg Xaa Asn Ser Ser Xaa Ser Ser Ala Val Pro Arg Val Cys Leu Leu Gln Gln 90 Cys Leu Asp Gly Thr Asp Pro Gly Thr Leu Phe Gln Pro Pro Thr Asp 100 105 Pro Leu <210> 7962 <211> 363 <212> PRT <213> Homo sapiens <400> 7962 Met Gln Leu Lys Pro Met Glu Ile Asn Pro Glu Met Leu Asn Lys Val Leu Ser Arg Leu Gly Val Ala Gly Gln Trp Arg Phe Val Asp Val Leu 25 Gly Leu Glu Glu Ser Leu Gly Ser Val Pro Ala Pro Ala Cys Ala 40 Leu Leu Leu Phe Pro Leu Thr Ala Gln His Glu Asn Phe Arg Lys Lys Gln Ile Glu Glu Leu Lys Phe Ser Cys Trp Ala Val Arg Xaa Asn 70 75 Ser Ser Xaa Ser Ser Ala Val Pro Arg Val Cys Leu Leu Gln Gln 90 Cys Leu Asp Gly Thr Asp Pro Gly Thr Leu Phe Gln His Thr Leu Glu 100 105 Glu Ala Gln Leu Ser Phe Leu Ile Phe 115 <210> 7963 <211> 411 <212> PRT <213> Homo sapiens <400> 7963 Met Ala Ala Arg Ser Val Ser Gly Ile Thr Arg Arg Val Phe Met Trp Thr Val Ser Gly Thr Pro Cys Arg Glu Phe Trp Ser Arg Phe Arg Lys 25 Glu Lys Glu Pro Val Val Val Glu Thr Val Glu Glu Lys Lys Glu Pro 40 Ile Leu Val Cys Pro Pro Leu Arg Ser Arg Ala Tyr Thr Pro Pro Glu 55 60 Asp Leu Gln Ser Arg Leu Glu Ser Tyr Val Lys Glu Val Phe Gly Ser Ser Leu Pro Ser Asn Trp Gln Asp Ile Ser Leu Glu Asp Ser Arg Leu Lys Phe Asn Leu Leu Ala His Leu Ala Asp Asp Leu Gly His Val Val 105 Pro Asn Ser Arg Leu His Gln Met Cys Arg Val Arg Xaa Val Leu Asp 115 120 125

Phe Tyr Asn Val Pro Ile Gln Glu Ile 130 <210> 7964 <211> 453 <212> PRT <213> Homo sapiens <400> 7964 Met Glu Glu Ile Gly Ile Leu Val Glu Lys Ala Gln Asp Glu Ile Pro Ala Leu Ser Val Ser Arg Pro Gln Thr Gly Leu Ser Phe Leu Gly Pro Glu Pro Glu Asp Leu Glu Asp Leu Tyr Ser Arg Tyr Lys Lys Leu Gln Gln Glu Leu Glu Phe Leu Glu Val Gln Glu Glu Tyr Ile Lys Asp Glu Gln Lys Asn Leu Lys Lys Glu Phe Leu His Ala Gln Glu Glu Val Lys 70 75 Arg Ile Gln Ser Ile Pro Leu Val Ile Gly Gln Phe Leu Glu Ala Val Asp Gln Asn Thr Ala Ile Val Gly Ser Thr Thr Gly Ser Asn Tyr Tyr 105 Val Arg Ile Leu Ser Thr Ile Asp Arg Glu Leu Leu Lys Pro Asn Ala 120 125 Ser Val Ala Leu His Lys His Ser Asn Ala Leu Val Asp Val Leu Pro Pro Lys Pro Thr Ala Ala Leu <210> 7965 <211> 378 <212> PRT <213> Homo sapiens <400> 7965 Met Pro Glu Pro Ala Lys Ser Ala Pro Ala Pro Lys Lys Gly Ser Lys Lys Ala Val Thr Lys Ala Gln Lys Lys Asp Gly Lys Lys Arg Lys Arg Ser Arg Lys Glu Ser Tyr Ser Val Tyr Val Tyr Lys Val Leu Lys Gln Val His Pro Asp Thr Gly Ile Ser Ser Lys Ala Met Gly Ile Met Asn 55 Ser Phe Val Asn Asp Ile Phe Glu Arg Ile Ala Gly Glu Ala Ser Arg 75 Leu Ala His Tyr Asn Lys Arg Ser Thr Ile Thr Ser Arg Glu Ile Gln Thr Ala Val Arg Leu Leu Pro Gly Glu Leu Ala Lys His Ala Val 105 Ser Glu Gly Thr Lys Ala Val Thr Lys Tyr Thr Ser Ser Lys 120

<210> 7966

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<211> 378
<212> PRT
<213> Homo sapiens
<400> 7966
Met Pro Glu Pro Thr Lys Ser Ala Pro Ala Pro Lys Lys Gly Ser Lys
Lys Ala Val Thr Lys Ala Gln Lys Lys Asp Gly Lys Lys Arg Lys Arg
                                25
Ser Arg Lys Glu Ser Tyr Ser Val Tyr Val Tyr Lys Val Leu Lys Gln
Val His Pro Asp Thr Gly Ile Ser Ser Lys Ala Met Gly Ile Met Asn
Ser Phe Val Asn Asp Ile Phe Glu Arg Ile Ala Gly Glu Ala Ser Arg
Leu Ala His Tyr Asn Lys Arg Ser Thr Ile Thr Ser Arg Glu Ile Gln
                                    90
Thr Ala Val Arg Leu Leu Pro Gly Glu Leu Ala Lys His Ala Val
                                105
Ser Glu Gly Thr Lys Ala Val Thr Lys Tyr Thr Ser Ser Lys
                            120
<210> 7967
<211> 525
<212> PRT
<213> Homo sapiens
<400> 7967
Met Asp Ile Ala Ile His His Pro Trp Ile Arg Arg Pro Phe Pro
Phe His Ser Pro Ser Arg Leu Phe Asp Gln Phe Phe Gly Glu His Leu
                                25
Leu Glu Ser Asp Leu Phe Pro Thr Ser Thr Ser Leu Ser Pro Phe Tyr
                            40
Leu Arg Pro Pro Ser Phe Leu Arg Ala Pro Ser Trp Phe Asp Thr Gly
Leu Ser Glu Met Arg Leu Glu Lys Asp Arg Phe Ser Val Asn Leu Asp
                    70
                                        75
Val Lys His Phe Ser Pro Glu Glu Leu Lys Val Lys Val Leu Gly Asp
Val Ile Glu Val His Gly Lys His Glu Glu Arg Gln Asp Glu His Gly
                                105
Phe Ile Ser Arg Glu Phe His Arg Lys Tyr Arg Ile Pro Ala Asp Val
                            120
                                                125
Asp Pro Leu Thr Ile Thr Ser Ser Leu Ser Ser Asp Gly Val Leu Thr
                        135
                                            140
Val Asn Gly Pro Arg Lys Gln Val Ser Gly Pro Glu Arg Thr Ile Pro
                    150
                                        155
Ile Thr Arg Glu Glu Lys Pro Ala Val Thr Ala Ala Pro Lys Lys
                165
<210> 7968
<211> 750
<212> PRT
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<213> Homo sapiens

<400> 7968 Met Thr Ser Ala Phe Lys Leu Asp Phe Leu Pro Asp Met Met Val Xaa 10 Gly Arg Leu Leu Val Pro Asp Arg Ile Asn Gly Thr Ala Asn Lys Met 25 Asn Gly Ala Leu Asp Xaa Xaa Asp Gln Pro Asp Pro Asp Ala Ile Lys 40 Met Phe Val Gly Xaa Ile Pro Arg Ser Trp Ser Xaa Lys Glu Leu Thr Ser Gln Leu Thr Pro His Thr His Leu Ala Thr Met Asp Ile Ala Ile His His Pro Trp Ile Arg Arg Pro Phe Pro Phe His Ser Pro Ser Arg Leu Phe Asp Gln Phe Phe Gly Glu His Leu Leu Glu Ser Asp Leu 105 Phe Pro Thr Ser Thr Ser Leu Ser Pro Phe Tyr Leu Arg Pro Pro Ser 115 120 125 Phe Leu Arg Ala Pro Ser Trp Phe Asp Thr Gly Leu Ser Glu Met Arg 135 Leu Glu Lys Asp Arg Phe Ser Val Asn Leu Asp Val Lys His Phe Ser 150 155 Pro Glu Glu Leu Lys Val Lys Val Leu Gly Asp Val Ile Glu Val His 165 170 Gly Lys His Glu Glu Arg Gln Asp Glu His Gly Phe Ile Ser Arg Glu 185 Phe His Arg Lys Tyr Arg Ile Pro Ala Asp Val Asp Pro Leu Thr Ile Thr Ser Ser Leu Ser Ser Asp Gly Val Leu Thr Val Asn Gly Pro Arg 215 Lys Gln Val Ser Gly Pro Glu Arg Thr Ile Pro Ile Thr Arg Glu Glu 230 235 Lys Pro Ala Val Thr Ala Ala Pro Lys Lys 245

<210> 7969

<211> 324

<212> PRT

<213> Homo sapiens

<400> 7969

 Met
 Arg
 Leu
 Glu
 Lys
 Asp
 Arg
 Phe
 Ser
 Val
 Asp
 Leu
 Asp
 His
 Is

 Phe
 Ser
 Pro
 Glu
 Glu
 Leu
 Lys
 Val
 Leu
 Gly
 Asp
 Val
 Ile
 Glu
 Asp
 Val
 Ile
 Glu
 His
 Gly
 Phe
 Ile
 Ser
 Asp
 Val
 Asp
 Phe
 Ile
 Ser
 Asp
 Val
 Asp
 Pro
 Leu
 Asp
 Val
 Asp
 Pro
 Ile
 Pro
 Ile
 Thr
 Val
 Asp
 Pro
 Ile
 Pro
 Ile
 Ile
 Ile
 Ile

Glu Glu Lys Pro Ala Val Thr Ala Ala Pro Lys Lys 100 105

<211> 426 <212> PRT

<213> Homo sapiens

<400> 7970

Met Glu Ala Thr Thr Ala Gly Val Gly Arg Leu Glu Glu Glu Ala Leu

5 10 15

Arg Arg Lys Glu Arg Leu Lys Ala Leu Arg Glu Lys Thr Gly Arg Lys
20 25 30

Asp Lys Glu Asp Gly Glu Pro Lys Thr Lys His Leu Arg Glu Glu Glu 35 40 45

Glu Glu Gly Glu Lys His Arg Glu Leu Arg Leu Arg Asn Tyr Val Pro
50 55 60

Glu Asp Glu Asp Leu Lys Lys Arg Arg Val Pro Gln Ala Lys Pro Val 65 70 75 80

Ala Val Glu Glu Lys Val Lys Glu Gln Leu Glu Ala Ala Lys Pro Glu 85 90 95

Pro Val Ile Glu Glu Val Asp Leu Ala Asn Leu Xaa Ser Arg Lys Pro 100 105 110

Asp Trp Asp Leu Lys Arg Asp Val Ala Lys Lys Leu Glu Lys Leu Lys
115 120 125

Lys Arg Thr Gln Arg Ala Ile Ala Glu Leu Ile Arg Glu Gly
130 135 140

<210> 7971

<211> 324

<212> PRT

<213> Homo sapiens

<400> 7971

Met Ala Ala Met Asp Val Asp Thr Pro Ser Gly Thr Asn Ser Gly

1 10 15

Ala Gly Lys Lys Arg Phe Glu Val Lys Lys Trp Asn Ala Val Ala Leu 20 25 30

Trp Ala Trp Asp Ile Val Val Asp Asn Cys Ala Ile Cys Arg Asn His
35 40 45

Ile Met Asp Leu Cys Ile Glu Cys Gln Ala Asn Gln Ala Ser Ala Thr 50 55 60

Ser Glu Glu Cys Thr Val Ala Trp Gly Val Cys Asn His Ala Phe His 65 70 75 80

Phe His Cys Ile Ser Arg Trp Leu Lys Thr Arg Gln Val Cys Pro Leu
85 90 95

Asp Asn Arg Glu Trp Glu Phe Gln Lys Tyr Gly His 100 105

<210> 7972

<211> 366

<212> PRT

<213> Homo sapiens

 <400> 7972

 Met Thr Lys
 Lys
 Arg
 Arg
 Asn
 Asn
 Gly
 Arg
 Ala
 Lys
 Lys
 Gly
 Arg
 Gly

 His
 Val
 Gln
 Pro
 Ile
 Arg
 Cys
 Thr
 Asn
 Cys
 Ala
 Arg
 Cys
 Val
 Pro
 Lys

 Asp
 Lys
 Ala
 Ile
 Lys
 Lys
 Phe
 Val
 Ile
 Arg
 Asn
 Ile
 Val
 Glu
 Ala
 Arg
 Ala
 Ala</

<210> 7973 <211> 429 <212> PRT

<213> Homo sapiens

<400> 7973

135

Met Glu Glu Lys Lys Gly Ile Ser Gly Tyr Ser Tyr Thr Gln Glu Glu

<210> 7974 <211> 393 <212> PRT <213> Homo sapiens

<400> 7974

130

 Met Ala Ser Met Gly Thr Leu Ala Phe Asp Glu Tyr Gly Arg Pro Phe

 1
 5
 10
 15

 Leu Ile Ile Lys Asp Gln Asp Arg Lys Ser Arg Leu Met Gly Leu Glu
 20
 25
 30

 Ala Leu Lys Ser His Ile Met Ala Ala Lys Ala Val Ala Asn Thr Met

35 40 Arg Thr Ser Leu Gly Pro Asn Gly Leu Asp Lys Met Met Val Asp Lys Asp Gly Asp Val Thr Val Thr Asn Asp Gly Ala Thr Ile Leu Ser Met 75 Met Asp Val Asp His Gln Ile Ala Lys Leu Met Val Glu Leu Ser Lys 90 Ser Gln Asp Asp Glu Ile Gly Asp Gly Thr Thr Gly Val Val Leu 105 Ala Gly Ala Leu Leu Glu Lys Arg Xaa Ile Ala Ser Arg Ala Phe Thr 115 120 Gln Ser Glu 130 <210> 7975 <211> 429 <212> PRT <213> Homo sapiens <400> 7975 Met Gly Lys Cys Arg Gly Leu Arg Thr Ala Arg Lys Leu Arg Ser His Arg Arg Asp Gln Lys Trp His Asp Lys Gln Tyr Lys Lys Ala His Leu 25 Gly Thr Ala Leu Lys Ala Asn Pro Phe Gly Gly Ala Ser His Ala Lys 40 Gly Ile Val Leu Glu Lys Val Gly Val Glu Ala Lys Gln Pro Asn Ser Ala Ile Arg Lys Cys Val Arg Val Gln Leu Ile Lys Asn Gly Lys Lys Ile Thr Ala Phe Val Pro Asn Asp Gly Cys Leu Asn Phe Ile Glu Glu Asn Asp Glu Val Leu Val Ala Gly Phe Gly Arg Lys Gly His Ala Val 105 Gly Asp Ile Pro Gly Val Arg Phe Lys Val Val Lys Val Ala Asn Val 120 Ser Leu Leu Ala Leu Tyr Lys Gly Lys Lys Glu Arg Pro Arg Ser <210> 7976 <211> 327 <212> PRT <213> Homo sapiens <400> 7976 Met Pro Val Ala Val Met Ala Glu Ser Ala Phe Ser Phe Lys Lys Leu Leu Asp Gln Cys Glu Asn Gln Glu Leu Glu Ala Pro Gly Gly Ile Ala Thr Pro Pro Val Tyr Gly Gln Leu Leu Ala Leu Tyr Leu Leu His Asn Asp Met Asn Asn Ala Arg Tyr Leu Trp Lys Arg Ile Pro Pro Ala Ile

Lys Ser Ala Asn Ser Glu Leu Gly Gly Ile Trp Ser Val Gly Gln Arg

```
65
                    70
                                         75
Ile Trp Gln Arg Asp Phe Pro Gly Ile Tyr Thr Thr Ile Asn Ala His
Gln Trp Ser Glu Thr Val Gln Pro Ile Met Glu Ser Thr
<210> 7977
<211> 402
<212> PRT
<213> Homo sapiens
<400> 7977
Met Val Glu Asn Ser Pro Ser Pro Leu Pro Glu Arg Ala Ile Tyr Gly
Phe Val Leu Phe Leu Ser Ser Gln Phe Gly Phe Ile Leu Tyr Leu Val
                                 25
Trp Ala Phe Ile Pro Glu Ser Trp Leu Asn Ser Leu Gly Leu Thr Tyr
                            40
Trp Pro Gln Lys Tyr Trp Ala Val Ala Leu Pro Val Tyr Leu Leu Ile
Ala Ile Val Ile Gly Tyr Val Leu Leu Phe Gly Ile Asn Met Met Ser
                                         75
Thr Ser Pro Leu Asp Ser Ile His Thr Ile Thr Asp Asn Tyr Ala Lys
                                     90
Asn Gln Gln Lys Lys Tyr Gln Glu Glu Ala Ile Pro Ala Leu Arg
                                105
Asp Ile Ser Ile Ser Glu Val Asn Gln Met Phe Phe Leu Ala Ala Lys
        115
                            120
Glu Leu Tyr Thr Lys Asn
    130
<210> 7978
<211> 363
<212> PRT
<213> Homo sapiens
<400> 7978
Met Glu Ala Glu Val Asp Lys Leu Glu Leu Met Phe Gln Lys Ala Glu
Ser Asp Leu Asp Tyr Ile Gln Tyr Arg Leu Glu Tyr Glu Ile Lys Thr
Asn His Pro Asp Ser Ala Ser Glu Lys Asn Pro Val Thr Leu Leu Lys
                            40
Glu Leu Ser Val Ile Lys Ser Arg Tyr Gln Thr Leu Tyr Ala Arg Phe
Xaa Pro Val Ala Val Glu Gln Lys Glu Ser Xaa Ser Arg Ile Cys Ala
                    70
Thr Val Lys Xaa Thr Met Asn Met Ile Gln Xaa Leu Gln Xaa Xaa Thr
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Asp Leu Glu Leu Ser Pro Leu Thr Xaa Xaa Glu Lys Thr Ala Ala Xaa

105

100

115

Gln Phe Arg Phe His Met Pro Asp Leu

```
<210> 7979
<211> 306
<212> PRT
<213> Homo sapiens
<400> 7979
Met Ala Gly Gln Ala Phe Arg Lys Phe Leu Pro Leu Phe Asp Arg Val
                                     1.0
Leu Val Glu Arg Ser Ala Ala Glu Thr Val Thr Lys Gly Gly Ile Met
Leu Pro Glu Lys Ser Gln Gly Lys Val Leu Gln Ala Thr Val Val Ala
Val Gly Ser Gly Ser Lys Gly Lys Gly Gly Glu Ile Gln Pro Val Ser
Val Lys Val Gly Asp Lys Val Leu Leu Pro Glu Tyr Gly Gly Thr Lys
Val Val Leu Asp Asp Lys Asp Tyr Phe Leu Phe Arg Asp Gly Asp Ile
                85
                                     90
Leu Gly Lys Tyr Val Asp
            100
<210> 7980
<211> 351
<212> PRT
<213> Homo sapiens
<400> 7980
Met Leu Gly Arg Gly Gly Cys Cys Arg Gly Ala Gly Asp Ala Pro Pro
Gln Asp Pro Met Glu Met Ala Glu Val Glu Glu Thr Leu Lys Arg Leu
Gln Xaa Gln Lys Gly Val Gln Gly Ile Ile Val Val Asn Thr Glu Gly
Ile Pro Ile Lys Ser Thr Met Asp Asn His Thr Thr Gln Tyr Ala
                        55
                                             60
Ser Leu Met His Ser Phe Ile Leu Lys Ala Arg Ser Thr Val Arg Asp
                    70
Ile Asp Pro Gln Asn Asp Leu Thr Phe Leu Arg Ile Arg Ser Lys Lys
                                    90
Asn Glu Ile Met Val Ala Pro Asp Lys Asp Tyr Phe Leu Ile Val Ile
            100
                                105
Gln Asn Pro Thr Glu
        115
<210> 7981
<211> 330
<212> PRT
<213> Homo sapiens
<400> 7981
Met Ala Gly Glu Ala Gly Val Thr Leu Gly Gln Pro His Leu Ser
Arg Gln Asp Leu Thr Thr Leu Asp Val Thr Lys Leu Thr Pro Leu Ser
            20
                                25
                                                     30
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<210> 7982 <211> 378 <212> PRT

<213> Homo sapiens

<400> 7982

 Met
 Thr
 Asp
 Gln
 Ala
 Glu
 Ala
 Arg
 Ser
 Tyr
 Leu
 Ser
 Glu
 Glu
 Met

 Ile
 Ala
 Glu
 Phe
 Lys
 Ala
 Ala
 Phe
 Asp
 Met
 Phe
 Asp
 Ala
 Asp
 Gly
 Gly
 Gly
 Gly
 Asp
 Met
 Phe
 Asp
 Ala
 Asp
 Gly
 Gly
 Gly
 Asp
 Met
 Asp
 Ala
 Asp
 Gly
 Gly
 Gly
 Asp
 Asp
 Ala
 Asp
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 Asp
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 Asp
 Asp
 Ala
 Ile
 Ile
 Glu
 Glu
 Asp
 Ala
 Ile
 Ile

120

<210> 7983 <211> 516 <212> PRT <213> Homo sapiens

<400> 7983

 Met
 Ser
 Gln
 Thr
 Arg
 Asp
 Leu
 Gln
 Gly
 Lys
 Ala
 Phe
 Gly
 Leu
 Leu

 Lys
 Ala
 Gln
 Gln
 Glu
 Arg
 Leu
 Asp
 Glu
 Ile
 Asn
 Lys
 Gln
 Phe
 Leu

 Asp
 Asp
 Pro
 Leu
 Asp
 Glu
 Asp
 Leu
 Asp
 Leu
 Pro
 Ser
 Lys
 Leu
 Glu
 Asp
 Leu
 Asp
 Leu
 Asp
 Leu
 Asp
 Glu
 Leu
 Asp
 Asp
 Leu
 Asp
 Leu
 Asp
 Glu
 Leu
 Gly
 Asp
 He
 Leu
 Gly
 Asp
 He
 Leu
 Asp
 He
 Leu
 Asp
 He

Lys Arg Ser Ala Ile Leu Lys Met Ile Leu Met Tyr Glu Glu Lys Ala
115 120 125

Arg Glu Lys Glu Lys Pro Thr Gly Pro Pro Ala Arg Lys Leu Ser Leu
130 135 140

Ser Cys Pro Asp Leu Lys Gly Lys Gly Met Met Gly Leu Lys Gly Leu
145 150 155 160

Leu Ile Thr Gln Ile Trp Lys Gln Lys Thr Lys Leu

<210> 7984 <211> 321 <212> PRT <213> Homo sapiens

165

<213> Hollo sapien

<400> 7984
Met Lys Asn Phe Val Thr Lys Val Ser Val Gly Glu Phe Val Gly Glu

1 5 10 15
Gly Glu Gly Lys Ser Lys Lys Ile Ser Lys Lys Asn Ala Ala Ile Ala
20 25 30
Val Leu Glu Glu Leu Lys Lys Leu Pro Pro Leu Pro Ala Val Glu Arg
35 40 45
Val Lys Pro Arg Ile Lys Lys Lys Thr Lys Pro Ile Val Lys Pro Gln
50 55 60
Thr Ser Pro Glu Tyr Gly Gln Gly Ile Asn Pro Ile Ser Arg Leu Ala

65 70 75 80

Gln Ile Gln Gln Ala Lys Lys Glu Lys Glu Gln Ser Thr Arg Ser Ser

85 90 95

Cln Ser Glu Ala Gen Arr Ala Ala Gla G

Gln Ser Glu Ala Ser Arg Ala Ala Gly Ser Leu 100 105

<210> 7985 <211> 372 <212> PRT

<213> Homo sapiens

<400> 7985

 Met Ala Leu Ser Lys Arg Glu Leu Asp Glu Leu Lys Pro Trp Ile Glu

 1
 5
 10
 15

 Lys Thr Val Lys Arg Val Leu Gly Phe Ser Glu Pro Thr Val Val Thr 20
 25
 30

 Ala Ala Leu Asn Cys Val Gly Lys Gly Met Asp Lys Lys Lys Ala Ala

35 40 45

Asp His Leu Lys Pro Phe Leu Asp Asp Ser Thr Leu Arg Phe Val Asp 50 55 60

Lys Leu Phe Glu Ala Val Glu Glu Gly Arg Ser Ser Arg His Ser Lys 70 75 80

Ser Ser Ser Asp Arg Ser Arg Lys Arg Glu Leu Lys Glu Val Phe Gly 85 90 95

Asp Asp Ser Glu Ile Ser Lys Glu Ser Ser Gly Val Lys Lys Arg Arg 100 105 110

Ile Pro Arg Phe Glu Glu Xaa Lys Lys Ser Gln Arg 115 120

<210> 7986

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<211> 321
<212> PRT
<213> Homo sapiens
<400> 7986
Met Glu Asn His Lys Ser Asn Asn Lys Glu Asn Ile Thr Ile Val Asp
                                     10
Ile Ser Arg Lys Ile Asn Gln Leu Pro Glu Ala Glu Arg Asn Leu Leu
Glu Asn Gly Ser Val Tyr Val Gly Leu Asn Ala Ala Leu Cys Gly Leu
                            40
Ile Ala Asn Ser Leu Phe Arg Arg Ile Leu Asn Val Thr Lys Ala Arg
Ile Ala Ala Gly Leu Pro Met Ala Gly Ile Pro Phe Leu Thr Thr Asp
                                         75
Leu Thr Tyr Arg Cys Phe Val Ser Phe Pro Leu Asn Thr Gly Asp Leu
                                    90
Asp Cys Glu Thr Cys Thr Ile Thr Arg Ser Asp
            100
<210> 7987
<211> 354
<212> PRT
<213> Homo sapiens
<400> 7987
Met Ser Gly Gly Leu Leu Lys Ala Leu Arg Xaa Asp Ser Tyr Val Glu
                                    10
Leu Ser Gln Tyr Arg Asp Gln His Phe Arg Gly Asp Asn Glu Glu Gln
Glu Lys Leu Leu Lys Lys Ser Cys Thr Leu Tyr Val Gly Asn Leu Ser
Phe Tyr Thr Thr Glu Glu Gln Ile Tyr Glu Leu Phe Ser Lys Ser Gly
Asp Ile Lys Lys Ile Ile Met Gly Leu Asp Lys Met Lys Lys Thr Ala
                                        75
Cys Gly Phe Cys Leu Trp Asn Ile Thr His Ala Gln Met Arg Lys Thr
                85
                                    90
Pro Cys Gly Thr Xaa Met Gly Arg Val Trp Met Thr Glu Ser Phe Ala
                                105
Gln Thr Gly Thr Gln Leu
        115
<210> 7988
<211> 366
<212> PRT
<213> Homo sapiens
<400> 7988
Met Ala Asp Glu Ala Thr Arg Arg Val Val Ser Glu Ile Pro Val Leu
Lys Thr Asn Ala Gly Pro Arg Asp Arg Glu Leu Trp Val Gln Arg Leu
Lys Glu Glu Tyr Gln Ser Leu Ile Arg Tyr Val Glu Asn Asn Lys Asn
```

```
35
                            40
Ala Asp Asn Asp Trp Phe Arg Leu Glu Ser Asn Lys Glu Gly Thr Arg
Trp Phe Gly Lys Cys Trp Tyr Ile His Asp Leu Leu Lys Tyr Glu Phe
                    70
Asp Ile Glu Phe Asp Ile Pro Ile Thr Tyr Pro Thr Thr Ala Pro Glu
                                    90
Ile Ala Val Pro Glu Leu Asp Gly Lys Thr Ala Lys Met Tyr Ser Trp
            100
                                105
Val His Gly Trp Gln Trp Lys Ser Leu Ile
<210> 7989
<211> 366
<212> PRT
<213> Homo sapiens
<400> 7989
Met Ala Asp Glu Ala Thr Arg Arg Val Val Ser Glu Ile Pro Val Leu
```

 Lys
 Thr
 Asn
 Ala
 Gly
 Pro
 Arg
 Asp
 Arg
 Glu
 Leu
 Trp
 Val
 Gln
 Arg
 Leu
 Leu
 Tyr
 Val
 Glu
 Asn
 Asn
 Lys
 Asn
 Lys
 Asn
 Lys
 Asn
 Lys
 Asn
 Lys
 Asn
 Lys
 Asn
 Asn
 Lys
 Asn
 Arg
 Leu
 Glu
 Ser
 Asn
 Lys
 Glu
 Asn
 Lys
 Asn
 Lys
 Asn
 Lys
 Arg
 Leu
 Glu
 Ser
 Asn
 Lys
 Glu
 Gly
 Thr
 Arg
 Leu
 Glu
 Ser
 Asn
 Lys
 Glu
 Gly
 Thr
 Arg
 Leu
 Leu
 Leu
 Lys
 Tyr
 Glu
 Phe
 Arg
 Leu
 L

<210> 7990 <211> 336 <212> PRT

<213> Homo sapiens

<400> 7990

 Met
 Pro
 Lys
 Phe
 Tyr
 Cys
 Asp
 Tyr
 Cys
 Asp
 Thr
 Tyr
 Leu
 Thr
 His
 Asp

 Ser
 Pro
 Ser
 Val
 Arg
 Lys
 Thr
 His
 Cys
 Ser
 Gly
 Arg
 Lys
 His
 Lys
 Glu

 Asn
 Val
 Lys
 Asp
 Tyr
 Tyr
 Gln
 Lys
 Trp
 Met
 Glu
 Glu
 Gln
 Ala
 Gln
 Ser

 Leu
 Ile
 Asp
 Lys
 Thr
 Thr
 Ala
 Ala
 Phe
 Gln
 Gln
 Gly
 Lys
 Ile
 Pro
 Pro

 Leu
 Ile
 Asp
 Lys
 Thr
 Thr
 Ala
 Ala
 Phe
 Gln
 Gln
 Gly
 Lys
 Ile
 Pro
 Pro

 Leu
 Ile
 Asp
 Lys
 Thr
 Thr
 Ala
 Ala
 Phe
 Gln
 Gln
 Lys

100 105

110

<210> 7991

<211> 381

<212> PRT

<213> Homo sapiens

<400> 7991

Met Glu Glu Val Pro His Asp Cys Pro Gly Ala Asp Ser Ala Gln Ala

Gly Arg Gly Ala Ser Cys Gln Gly Cys Pro Asn Gln Arg Leu Cys Ala

Ser Gly Ala Gly Ala Thr Pro Asp Thr Ala Ile Glu Glu Ile Lys Glu 40

Lys Met Lys Thr Val Lys His Lys Ile Leu Val Leu Ser Gly Lys Gly 55

Gly Val Gly Lys Ser Thr Phe Ser Ala His Leu Ala His Gly Leu Ala 70 75

Glu Asp Glu Asn Thr Gln Ile Ala Leu Leu Asp Ile Asp Ile Cys Gly

Pro Ser Ile Pro Lys Ile Met Gly Leu Glu Gly Glu Gln Val His Gln 105

Ser Gly Ser Gly Trp Ser Pro Val Tyr Val Glu Asp Asn Trp Gly

<210> 7992

<211> 381

<212> PRT

<213> Homo sapiens

<400> 7992

Met Glu Glu Val Pro His Asp Cys Pro Gly Ala Asp Ser Ala Gln Ala

Gly Arg Gly Ala Ser Cys Gln Gly Cys Pro Asn Gln Arg Leu Cys Ala 25

Ser Gly Ala Gly Ala Thr Ala Asp Thr Ala Ile Glu Glu Ile Lys Glu 40

Lys Met Lys Thr Val Lys His Lys Ile Leu Val Leu Ser Gly Lys Gly

Gly Val Gly Lys Ser Thr Phe Ser Ala His Leu Ala His Gly Leu Ala 75

Glu Asp Phe Gly Gln Gly Cys Gln Lys Val Leu Leu Glu Glu Lys

Tyr Xaa Ile Ser Leu Trp Phe Phe Leu Cys Ile Val Phe Ser Arg Xaa 105

Arg Val Ser Leu Cys Cys Pro Gly Trp Ser Xaa Val Ala Arg Ser 120

<210> 7993

<211> 618

<212> PRT

<213> Homo sapiens

<400> 7993

Met Arq Glu Cys Ile Ser Ile His Val Gly Gln Ala Gly Val Gln Ile Gly Asn Ala Cys Trp Glu Leu Tyr Cys Leu Glu His Gly Ile Gln Pro 2.5 20 Asp Gly Gln Met Pro Ser Asp Lys Thr Ile Gly Gly Gly Asp Asp Ser Phe Asn Thr Phe Phe Ser Glu Thr Gly Ala Gly Lys His Val Pro Arg 55 Ala Val Phe Val Asp Leu Glu Pro Thr Val Ile Asp Glu Val Arg Thr 70 Gly Thr Tyr Arg Gln Leu Phe His Pro Glu Gln Leu Ile Thr Gly Lys Glu Asp Ala Ala Asn Asn Tyr Ala Arg Gly His Tyr Thr Ile Gly Lys 105 Glu Ile Ile Asp Leu Val Leu Asp Arg Ile Arg Lys Leu Ala Asp Gln 120 125 Cys Thr Gly Leu Gln Gly Phe Leu Val Phe His Ser Xaa Gly Gly Gly 135 140 Thr Gly Ser Gly Phe Thr Ser Leu Leu Met Glu Arg Leu Ser Val Asp 150 155 Tyr Gly Lys Lys Ser Lys Leu Glu Phe Ser Ile Tyr Pro Ala Pro Gln 165 170 Val Ser Thr Ala Val Val Glu Pro Tyr Asn Ser Ile Leu Thr Thr His 185 Thr Thr Leu Glu His Ser Asp Cys Ala Xaa His Gly Arg Gln 200

<210> 7994

<211> 618

<212> PRT

<213> Homo sapiens

<400> 7994 Met Arg Glu Cys Ile Ser Ile His Val Gly Gln Ala Gly Val Gln Ile Gly Asn Ala Cys Trp Glu Leu Tyr Cys Leu Glu His Gly Ile Gln Pro 20 25 Asp Gly Gln Met Pro Ser Asp Lys Thr Ile Gly Gly Asp Asp Ser Phe Asn Thr Phe Phe Ser Glu Thr Gly Ala Gly Lys His Val Pro Arg Ala Val Phe Val Asp Leu Glu Pro Thr Val Ile Asp Glu Val Arg Thr 70 75 Gly Thr Tyr Arg Gln Leu Phe His Pro Glu Gln Leu Ile Thr Gly Lys 90 Glu Asp Ala Ala Asn Asn Tyr Ala Arg Gly His Tyr Thr Ile Gly Lys 105 Glu Ile Ile Asp Leu Val Leu Asp Arg Ile Arg Lys Leu Ala Asp Gln Cys Thr Gly Leu Gln Gly Phe Leu Val Phe His Ser Xaa Xaa Gly Gly 135 140 Thr Gly Ser Gly Phe Thr Ser Leu Leu Met Glu Arg Leu Ser Val Asp 150 155

Tyr Gly Lys Lys Ser Lys Leu Glu Phe Ser Ile Tyr Pro Ala Pro Gln

<211> 612

165 170 175 Val Ser Thr Ala Val Val Glu Pro Tyr Asn Ser Ile Leu Thr Thr His 185 Thr Thr Leu Glu His Ser Asp Cys Ala Xaa His Gly Arg Gln 195 200 <210> 7995 <211> 324 <212> PRT <213> Homo sapiens <400> 7995 Met Glu Ala Val Leu Thr Glu Glu Leu Asp Glu Glu Glu Gln Leu Leu Arg Arg His Arg Lys Glu Lys Lys Glu Leu Gln Ala Lys Ile Gln Gly 25 Met Lys Asn Ala Val Pro Lys Asn Asp Lys Lys Arg Arg Lys Gln Leu Thr Glu Asp Val Ala Lys Leu Glu Lys Glu Met Glu Gln Lys His Arg 55 Glu Glu Leu Glu Gln Leu Lys Leu Thr Thr Lys Glu Asn Lys Ile Asp 75 Ser Val Ala Val Asn Ile Ser Asn Leu Val Leu Glu Asn Gln Pro Pro 90 Arg Ile Ser Lys Ala Gln Lys Arg Arg Val Pro Gly 105 <210> 7996 <211> 405 <212> PRT <213> Homo sapiens <400> 7996 Met Ala Phe Leu Ala Ser Gly Pro Tyr Leu Thr His Gln Gln Lys Val 10 Leu Arg Leu Tyr Lys Arg Ala Leu Arg His Leu Glu Ser Trp Cys Val 25 Gln Arg Asp Lys Tyr Arg Tyr Phe Ala Cys Leu Met Arg Ala Arg Phe Glu Glu His Lys Asn Glu Lys Xaa Met Ala Lys Ala Thr Gln Leu Lys Glu Ala Glu Glu Phe Trp Tyr Arg Gln His Pro Gln Pro Tyr Ile 70 Phe Pro Asp Ser Pro Gly Gly Thr Ser Tyr Glu Arg Tyr Asp Cys Tyr 90 Lys Val Pro Glu Trp Cys Leu Asp Asp Trp His Pro Ser Glu Lys Ala 100 105 Met Tyr Pro Asp Tyr Phe Ala Lys Arg Glu Gln Trp Lys Lys Leu Arg 115 120 Gly Lys Leu Gly Thr Arg Gly 130 135 <210> 7997

<212> PRT <213> Homo sapiens <400> 7997 Met Gly Ala Tyr Ly 1 5

Met Gly Ala Tyr Lys Tyr Ile Gln Glu Leu Trp Arg Lys Lys Gln Ser Asp Val Met Arg Phe Leu Leu Arg Val Arg Cys Trp Gln Tyr Arg Gln Leu Ser Ala Leu His Arg Ala Pro Arg Pro Thr Arg Pro Asp Lys Ala 40 Arg Arg Leu Gly Tyr Lys Ala Lys Gln Gly Tyr Val Ile Tyr Arg Ile Arg Val Arg Arg Gly Gly Arg Lys Arg Pro Val Pro Lys Gly Ala Thr 70 75 Tyr Gly Lys Pro Val His His Gly Val Asn Gln Leu Lys Phe Ala Arg 90 Ser Leu Gln Ser Val Ala Glu Glu Arg Ala Gly Arg His Cys Gly Ala 105 Leu Arg Val Leu Asn Ser Tyr Trp Val Gly Glu Asp Ser Thr Tyr Lys Phe Phe Glu Val Ile Leu Ile Asp Pro Phe His Lys Ala Ile Arg Arg Asn Pro Asp Thr Gln Trp Ile Thr Lys Pro Val His Lys His Arg Glu 150 Met Arg Gly Leu Thr Ser Ala Gly Arg Lys Ser Arg Gly Leu Gly Lys 165 170

Gly His Lys Phe His His Thr Ile Gly Gly Ser Arg Arg Ala Ala Trp
180 185 190

Arg Arg Arg Asn Thr Leu Gln Leu His Arg Tyr Arg
195 200

<210> 7998 <211> 612

<212> PRT

<213> Homo sapiens

<400> 7998

 Met
 Gly
 Ala
 Tyr
 Lys
 Tyr
 Ile
 Gln
 Glu
 Leu
 Trp
 Arg
 Lys
 Lys
 Gln
 Ser

 1
 5
 5
 10
 15
 15

 Asp
 Val
 Met
 Arg
 Phe
 Leu
 Leu
 Leu
 Arg
 Val
 Arg
 Cys
 Trp
 Gln
 Tyr
 Arg
 Gln
 20
 30
 30
 30
 30
 30



```
130
                        135
                                             140
Asn Pro Asp Thr Gln Trp Ile Thr Lys Pro Val His Lys His Arg Glu
                    150
                                         155
Met Arg Gly Leu Thr Ser Ala Gly Arg Lys Ser Arg Gly Leu Gly Lys
                165
                                    170
Gly His Lys Phe His His Thr Ile Gly Gly Ser Arg Arg Ala Ala Trp
                                185
Arg Arg Arg Asn Thr Leu Gln Leu His Arg Tyr Arg
                             200
<210> 7999
<211> 306
<212> PRT
<213> Homo sapiens
<400> 7999
Met Ala Asp Asp Val Asp Gln Gln Gln Thr Thr Asn Thr Val Glu Glu
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 Met
 Ala
 Asp
 Asp
 Gln
 Gln
 Gln
 Thr
 Thr
 Asn
 Thr
 Val
 Glu
 Glu</th

Pro Pro Leu Arg Val Gly 100

<210> 8000 <211> 573

<212> PRT <213> Homo sapiens

<400> 8000

 Met
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 Thr
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 Lys
 Cys
 Val
 Val
 Gly
 Asp
 Gly
 Ala
 Val
 Gly
 Lys

 Thr
 Cys
 Leu
 Leu
 Ile
 Ser
 Tyr
 Thr
 Thr
 Asn
 Lys
 Phe
 Pro
 Ser
 Glu
 Tyr

 Val
 Pro
 Thr
 Val
 Phe
 Asp
 Asp
 Thr
 And
 Val
 Thr
 Val
 Met
 Ile
 Gly
 Gly
 And
 Tyr
 Ala
 Val
 Thr
 Val
 Met
 Ile
 Gly
 Gly
 And
 Tyr
 Ala
 Val
 Thr
 Val
 Met
 Ile
 Gly
 Gly
 And
 And

Leu Ala Lys Asn Lys Gln Lys Pro Ile Thr Pro Glu Thr Ala Glu Lys

130 135 Leu Ala Arg Asp Leu Lys Ala Val Lys Tyr Val Glu Cys Ser Ala Leu Thr Gln Lys Gly Leu Lys Asn Val Phe Asp Glu Ala Ile Leu Ala Ala 165 170 Leu Glu Pro Pro Glu Pro Lys Lys Ser Arg Arg Cys Val Leu Leu 180 185 <210> 8001 <211> 573 <212> PRT <213> Homo sapiens <400> 8001 Met Gln Thr Ile Lys Cys Val Val Val Gly Xaa Gly Ala Val Gly Lys 10 Thr Cys Leu Leu Ile Ser Tyr Thr Thr Xaa Lys Phe Pro Ser Glu Tyr 25 Val Pro Ala Val Phe Asp Asn Tyr Ala Val Thr Val Met Ile Gly Gly Glu Pro Tyr Thr Leu Gly Leu Phe Asp Thr Ala Gly Gln Glu Asp Tyr Asp Arg Leu Arg Pro Leu Ser Tyr Pro Gln Thr Asp Val Phe Leu Val Cys Phe Ser Val Val Ser Pro Ser Ser Phe Glu Asn Val Lys Glu Lys 85 Trp Val Pro Glu Ile Thr His His Cys Pro Lys Thr Pro Phe Leu Leu 100 105 Val Gly Thr Gln Ile Asp Leu Arg Asp Asp Pro Ser Thr Ile Glu Lys 120 Leu Ala Lys Asn Lys Gln Lys Pro Ile Thr Pro Glu Thr Ala Glu Lys 135 Leu Ala Arg Asp Leu Lys Ala Val Lys Tyr Val Glu Cys Ser Ala Leu 150 155 Thr Gln Lys Gly Leu Lys Asn Val Phe Asp Glu Ala Ile Leu Ala Ala 165 170 Leu Glu Pro Pro Glu Pro Lys Lys Ser Arg Arg Cys Val Leu Leu <210> 8002 <211> 309 <212> PRT <213> Homo sapiens <400> 8002 Met Ser Arg Gly Ser Ser Ala Gly Phe Asp Arg His Ile Thr Ile Phe Ser Xaa Glu Gly Arg Leu Xaa Gln Val Glu Tyr Ala Phe Lys Ala Ile Asn Gln Gly Gly Leu Thr Ser Val Ala Val Arg Gly Lys Asp Cys Ala 40 Xaa Ile Val Thr Gln Lys Lys Val Pro Asp Lys Leu Leu Asp Ser Ser

55

Thr Val Thr His Leu Phe Lys Ile Thr Glu Asn Ile Gly Cys Val Met

```
65
                    70
Thr Gly Met Thr Ala Asp Ser Arg Ser Gln Val Ile Ser Val Leu Met
                                     90
Asn Leu Lys Ala Ile Asp Leu
            100
<210> 8003
<211> 336
<212> PRT
<213> Homo sapiens
<400> 8003
Met Ala Ala Pro Glu Glu His Asp Ser Pro Thr Glu Ala Ser Gln Pro
                                    10
Ile Val Glu Glu Glu Thr Lys Thr Phe Lys Asp Leu Gly Val Thr
                                25
Asp Val Leu Cys Glu Ala Cys Asp Gln Leu Gly Trp Thr Lys Pro Thr
                            40
Lys Ile Gln Ile Glu Ala Ile Pro Leu Ala Leu Gln Gly Arg Asp Ile
Ile Gly Leu Ala Glu Thr Gly Ser Gly Lys Thr Gly Ala Phe Ala Leu
Pro Ile Leu Asn Ala Leu Leu Glu Thr Pro Gln Arg Leu Phe Ala Leu
Val Leu Thr Pro Thr Arg Glu Leu Ala Phe Gln Ile Ser Glu Pro Val
                                105
<210> 8004
<211> 390
<212> PRT
<213> Homo sapiens
<400> 8004
Met Ala Met Glu Met Arg Leu Pro Val Ala Arg Lys Pro Leu Ser Glu
Arg Leu Gly Arg Asp Thr Lys Lys His Leu Val Val Pro Gly Asp Thr
                                25
Ile Thr Thr Asp Thr Gly Phe Met Arg Gly His Gly Thr Tyr Met Gly
Glu Glu Lys Leu Ile Ala Ser Val Ala Gly Ser Val Glu Arg Val Asn
Lys Xaa Ile Cys Val Lys Ala Leu Lys Thr Arg Tyr Ile Gly Glu Val
Xaa Asp Ile Val Val Gly Arg Ile Thr Glu Val Gln Gln Lys Arg Trp
Lys Val Glu Thr Asn Ser Arg Leu Asp Ser Val Leu Leu Ser Ser
                                105
Met Asn Leu Pro Gly Gly Glu Leu Arg Arg Asp Leu Gln Lys Met Ser
                            120
Leu Gln
    130
<210> 8005
<211> 405
```

<212> PRT

```
<213> Homo sapiens
<400> 8005
Met Ala Gly His Pro Lys Glu Arg Val Val Thr Asp Glu Val His Gln
Asn Gln Ile Leu Arg Glu Leu Tyr Leu Lys Glu Leu Arg Thr Gln Lys
                                25
Leu His Thr Gln Tyr His Val Asn Pro Leu Arg Lys Val His Arg Ile
Thr Arg Lys Pro Met Ser Trp His Asp Asn Leu Glu Glu Pro Ala Asp
Ala Arg Phe Leu Asn Leu Ile His His Ala Ala Gln Gly Pro Thr Lys
                    70
Lys Tyr Pro Glu Ala Gln Thr Glu Asn Gln Glu Ile Gly Trp Asp Ser
                                    90
Glu Xaa Leu Val Asp Pro Xaa Arg Arg Asp His Arg Met Asn His Phe
                                105
Arg Val Tyr Ser Asp Ile Thr Leu Tyr Lys Ala Lys Met Xaa Asp Leu
                            120
Gly Glu Asp Asp Arg His Lys
<210> 8006
<211> 540
<212> PRT
<213> Homo sapiens
<400> 8006
Met Thr Glu Gln Met Thr Leu Arg Gly Thr Leu Lys Gly His Asn Gly
Trp Val Thr Gln Ile Ala Thr Thr Pro Gln Phe Pro Asp Met Ile Leu
                                25
Ser Ala Ser Arg Asp Lys Thr Ile Ile Met Trp Lys Leu Thr Arg Asp
                            40
Glu Thr Asn Tyr Gly Ile Pro Gln Arg Ala Leu Arg Gly His Ser His
                        55
Phe Val Ser Asp Val Val Ile Ser Ser Asp Gly Gln Phe Ala Leu Ser
Gly Ser Trp Asp Gly Thr Leu Arg Leu Trp Asp Leu Thr Thr Gly Thr
                                    90
Thr Thr Arg Arg Phe Val Gly His Thr Lys Asp Val Leu Ser Val Ala
                                105
Phe Ser Ser Asp Asn Arg Gln Ile Val Ser Gly Ser Arg Asp Lys Thr
                            120
Ile Lys Leu Trp Asn Thr Leu Gly Val Cys Lys Tyr Thr Val Gln Asp
                        135
                                            140
Glu Ser His Ser Glu Trp Val Ser Cys Val Arg Phe Ser Pro Asn Ser
                                        155
Ser Asn Pro Ile Ile Val Ser Cys Gly Trp Asp Lys Leu Xaa Xaa Gly
                                    170
Met Glu Pro Gly
            180
```

```
<210> 8007
<211> 327
<212> PRT
<213> Homo sapiens
<400> 8007
Met Ser Ala Ala Met Arg Glu Arg Phe Asp Arg Phe Leu His Glu Lys
Asn Cys Met Thr Asp Leu Leu Ala Lys Leu Glu Ala Lys Thr Gly Val
Asn Arg Ser Phe Ile Ala Leu Gly Val Ile Gly Leu Val Ala Leu Tyr
Leu Val Phe Gly Tyr Gly Ala Ser Leu Leu Cys Asn Leu Ile Gly Phe
                        55
Gly Tyr Pro Ala Tyr Ile Ser Ile Lys Ala Ile Glu Ser Pro Asp Gln
Glu His Pro Val Pro Glu Gly Lys Lys Ile Leu Lys Gly Asp Gly Asn
                85
                                     90
Met Leu Lys Arg His Arg Ser Gln His Glu Asn Ala Trp
<210> 8008
<211> 369
<212> PRT
<213> Homo sapiens
<400> 8008
Met Ala Lys Ile Lys Ala Arg Asp Leu Arg Gly Lys Lys Glu Glu
Leu Leu Lys Gln Leu Asp Asp Leu Lys Val Glu Leu Ser Gln Leu Arg
Val Ala Lys Val Thr Gly Gly Ala Ala Ser Lys Leu Ser Lys Ile Arg
Val Val Arg Lys Ser Ile Ala Arg Val Leu Thr Val Ile Asn Gln Thr
Gln Lys Glu Asn Leu Arg Lys Phe Tyr Lys Gly Lys Lys Tyr Lys Pro
                    70
                                        75
Leu Asp Leu Arg Pro Lys Lys Thr Arg Ala Met Arg Arg Arg Leu Asn
Lys His Glu Glu Asn Leu Lys Thr Lys Lys Gln Gln Arg Lys Glu Arg
                                105
Leu Tyr Pro Leu Arg Lys Tyr Ala Val Lys Ala
<210> 8009
<211> 360
<212> PRT
<213> Homo sapiens
Met Trp Ala Ser Glu Leu Arg Gly Pro Gly Cys Ala Asp Ser Leu Asn
                                    10
Ala Ala Leu Ala His Ser Pro Leu Arg Asn Arg Gln Cys Arg Gly Phe
            20
                                                    30
```

Pro Gly Gly His Ser Ile Gln Pro Leu Tyr Thr Pro Arg Ala Pro Ala Ala Pro Pro Pro Pro His Lys Met Ala Ala Pro Ile Glu Glu 55 Thr Ala Ala Ser Pro Ala Pro Phe Cys Gly Arg Arg Glu Ile Cys Gln His Gly Lys Pro Leu Leu Arg Met His Pro Ser Leu Glu Thr Pro 90 Leu Lys Gly Trp Ser Leu Gly Asp His Ile Lys Arg Lys Met Pro Thr 105 Thr Ser Thr Thr Ser Thr Arg Phe

115

<210> 8010

<211> 369

<212> PRT

<213> Homo sapiens

<400> 8010

Met Gly Ala Pro Gly Gly Lys Ile Asn Arg Pro Arg Thr Glu Leu Lys

Lys Lys Leu Phe Lys Arg Arg Val Leu Asn Arg Glu Arg Arg Leu 25

Arg His Arg Val Val Gly Ala Val Ile Asp Gln Gly Leu Ile Thr Arg

His His Leu Lys Lys Arg Ala Ser Ser Ala Arg Ala Asn Ile Thr Leu 55

Ser Gly Lys Lys Arg Arg Lys Leu Leu Gln Gln Ile Arg Leu Ala Gln

Lys Glu Lys Thr Ala Met Glu Val Glu Ala Pro Ser Lys Pro Ala Arg

Thr Ser Glu Pro Gln Leu Lys Arg Gln Lys Lys Thr Lys Ala Pro Gln 100 105

Asp Val Glu Met Lys Asp Leu Glu Asp Glu Ser

<210> 8011

<211> 339

<212> PRT

<213> Homo sapiens

<400> 8011

Met Thr Val Lys Thr Glu Ala Ala Lys Gly Thr Leu Thr Tyr Ser Arg

Met Arg Gly Met Val Ala Ile Leu Ile Ala Phe Met Lys Gln Arg Arg 25

Met Gly Leu Asn Asp Phe Ile Gln Lys Ile Ala Asn Asn Ser Tyr Ala

Cys Lys His Pro Glu Val Gln Ser Ile Leu Lys Ile Ser Gln Pro Gln 55

Glu Pro Glu Leu Met Asn Ala Asn Pro Ser Pro Pro Pro Ser Pro Ser 75

Gln Gln Ile Asn Leu Gly Pro Ser Ser Asn Pro His Ala Lys Pro Ser 95

<212> PRT

<213> Homo sapiens



```
Asp Phe His Phe Leu Lys Val Ile Gly Lys Gly Ser Leu Glu Arg Phe
                                 105
Phe
<210> 8012
<211> 357
<212> PRT
<213> Homo sapiens
<400> 8012
Met Ala Ser Gly Leu Val Arg Leu Leu Gln Gln Gly His Arg Cys Leu
Leu Ala Pro Val Ala Pro Lys Leu Val Pro Pro Val Arg Gly Val Lys
Lys Gly Phe Arg Ala Ala Phe Arg Phe Gln Lys Glu Leu Glu Arg Gln
Arg Leu Leu Arg Cys Pro Pro Pro Pro Val Arg Arg Ser Glu Lys Pro
                        55
Asn Trp Asp Tyr His Ala Glu Ile Gln Ala Phe Gly His Arg Leu Gln
Glu Asn Phe Ser Leu Asp Leu Leu Lys Thr Ala Phe Val Asn Ser Cys
                                     90
Tyr Ile Lys Ser Glu Glu Ala Lys Arg Gln Gln Leu Gly Ile Gly Glu
                                105
Arg Ser Cys Ser Ser Glu Ser
        115
<210> 8013
<211> 342
<212> PRT
<213> Homo sapiens
<400> 8013
Met Pro Asp Tyr Leu Gly Ala Asp Gln Arg Lys Thr Lys Glu Asp Glu
Lys Asp Asp Lys Pro Ile Arg Ala Leu Asp Glu Gly Asp Ile Ala Leu
                                25
Leu Lys Thr Tyr Gly Gln Ser Thr Tyr Ser Arg Gln Ile Lys Gln Val
Glu Asp Asp Ile Gln Gln Leu Leu Lys Lys Ile Asn Glu Leu Thr Gly
Ile Lys Glu Ser Asp Thr Gly Leu Ala Pro Pro Ala Leu Trp Asp Leu
                    70
Ala Ala Asp Lys Gln Thr Leu Gln Ser Glu Gln Pro Leu Gln Val Ala
                                    90
Arg Cys Thr Lys Ile Ile Asn Ala Asp Ser Glu Asp Gln Asn Thr Leu
            100
Ser Thr
<210> 8014
<211> 327
```

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<400> 8014
Met Ala Ala Ser Ala Ala Arg Gly Ala Ala Ala Leu Arg Arg Ser Ile
Asn Gln Pro Val Ala Phe Val Arg Arg Ile Pro Trp Thr Ala Ala Ser
Ser Gln Leu Lys Glu His Phe Ala Gln Phe Gly His Val Arg Arg Cys
                            40
Ile Leu Pro Phe Asp Lys Glu Thr Gly Phe His Arg Gly Leu Gly Trp
                        55
Val Gln Phe Ser Ser Glu Glu Gly Leu Arg Asn Ala Leu Gln Gln Glu
                                        75
Asn His Ile Ile Asp Gly Val Lys Val Gln Val His Thr Arg Arg Pro
                85
Lys Leu Pro Gln Thr Ser Asp Asp Glu Lys Lys Asp Phe
<210> 8015
<211> 393
<212> PRT
<213> Homo sapiens
<400> 8015
Met Ala Pro Lys Gly Ser Ser Lys Gln Gln Ser Glu Glu Asp Leu Leu
Leu Gln Asp Phe Ser Arg Asn Leu Ser Ala Lys Ser Ser Ala Leu Phe
Phe Gly Asn Ala Phe Ile Val Ser Ala Ile Pro Ile Trp Leu Tyr Trp
                            40
Arg Ile Trp His Met Asp Leu Ile Gln Ser Ala Val Leu Tyr Ser Val
Met Thr Leu Val Ser Thr Tyr Leu Val Ala Phe Ala Tyr Lys Asn Val
                    70
Lys Phe Val Leu Lys His Lys Val Ala Gln Lys Arg Glu Asp Ala Val
                                    90
Ser Lys Glu Val Thr Arg Lys Leu Ser Glu Ala Asp Asn Arg Lys Met
                                105
            100
Ser Arg Lys Glu Lys Asp Glu Arg Ile Leu Trp Lys Lys Asn Glu Val
Ala Ala Leu
    130
<210> 8016
<211> 315
<212> PRT
<213> Homo sapiens
<400> 8016
Met Ala Leu Arg Tyr Pro Met Ala Val Gly Leu Asn Lys Gly His Lys
Val Thr Lys Asn Val Ser Lys Pro Arg His Ser Arg Arg Arg Gly Arg
                                 25
Leu Thr Lys His Thr Lys Phe Val Arg Asp Met Ile Arg Glu Val Cys
```

35 40 45
Gly Phe Ala Pro Tyr Glu Arg Arg Ala Met Glu Leu Leu Lys Val Ser



50 55 Lys Asp Lys Arg Ala Leu Lys Phe Ile Lys Lys Arg Val Gly Thr His 75 Ile Arg Ala Lys Arg Lys Arg Glu Glu Leu Ser Asn Val Leu Ala Ala Met Arg Lys Ala Ala Lys Lys Asp 100

<210> 8017 <211> 315 <212> PRT <213> Homo sapiens

<400> 8017

Met Ala Asp Glu Glu Glu Asp Pro Thr Phe Glu Glu Glu Asn Glu Glu

Ile Gly Gly Gly Ala Glu Gly Gly Gln Gly Lys Arg Lys Arg Leu Phe 25

Ser Lys Glu Leu Arg Cys Met Met Tyr Gly Phe Gly Asp Asp Gln Asn

Pro Tyr Thr Glu Ser Val Asp Ile Leu Glu Asp Leu Val Ile Glu Phe

Ile Thr Glu Met Thr His Lys Ala Met Ser Ile Gly Arg Gln Gly Arg Val Gln Val Glu Asp Ile Val Phe Leu Ile Arg Lys Xaa Pro Arg Lys

Phe Ala Arg Leu Lys Thr Cys Leu Leu 100

<210> 8018 <211> 336 <212> PRT

<213> Homo sapiens

<400> 8018

Met Ser Gly Cys Arg Val Phe Ile Gly Arg Leu Asn Pro Ala Ala Arg

Glu Lys Asp Val Glu Arg Phe Phe Lys Gly Tyr Gly Arg Ile Arg Asp

Ile Asp Leu Lys Arg Gly Phe Gly Phe Val Glu Phe Glu Asp Pro Arg 40

Asp Ala Asp Asp Ala Val Tyr Glu Leu Asp Gly Lys Glu Leu Cys Ser 55

Glu Arg Val Thr Ile Glu His Ala Arg Ala Arg Ser Arg Gly Gly Arg 70

Gly Arg Gly Arg Tyr Ser Asp Arg Phe Ser Ser Arg Arg Pro Arg Asn

Asp Arg Arg Asn Xaa Xaa Thr Cys Lys Asn Arg Lys Ser Ser Tyr Ser 105

<210> 8019

<211> 309

<212> PRT

<213> Homo sapiens

<210> 8020 <211> 333 <212> PRT <213> Homo sapiens

<400> 8020

 Met
 Ala
 Gly
 Lys
 Gln
 Ala
 Val
 Ser
 Ala
 Ser
 Gly
 Lys
 Trp
 Leu
 Asp
 Gly

 Ile
 Arg
 Lys
 Trp
 Tyr
 Asn
 Ala
 Ala
 Gly
 Phe
 Asn
 Lys
 Leu
 Gly
 Leu

 Met
 Arg
 Asp
 Asp
 Thr
 Ile
 Tyr
 Glu
 Asp
 Glu
 Asp
 Val
 Lys
 Glu
 Ala
 Ile

 Arg
 Arg
 Asp
 Thr
 Ile
 Tyr
 Glu
 Asp
 Arg
 Arg
 Met
 Phe
 Arg
 Ile
 Lys

 Arg
 Arg
 Leu
 Pro
 Glu
 Asn
 Leu
 Tyr
 Asn
 Asp
 Arg
 Met
 Phe
 Arg
 Ile
 Lys

 Arg
 Ala
 Leu
 Asn
 Leu
 Lys
 His
 Gln
 Ile
 Leu
 Pro
 Lys
 Glu
 Glu
 Glu
 Arg
 Ile
 Leu
 Pro
 Tyr
 Leu
 Lys
 Ile
 L

<210> 8021 <211> 453 <212> PRT <213> Homo sapiens

<400> 8021

 Met Ala Pro Arg Lys Gly Lys Glu Lys Lys Glu Glu Gln Val Ile Ser

 1
 5
 10
 15

 Leu Gly Pro Gln Val Ala Glu Gly Glu Asn Val Phe Gly Val Cys His 20
 25
 30

 Ile Phe Ala Ser Phe Asn Asp Thr Phe Val His Val Thr Asp Leu Ser 35
 40
 45

 Gly Lys Glu Thr Ile Cys Arg Val Thr Gly Gly Met Lys Val Lys Ala 50
 55
 60

 Asp Arg Asp Glu Ser Ser Pro Tyr Ala Ala Met Leu Ala Ala Gln Asp 65
 70
 75
 80

```
Val Ala Gln Arg Cys Lys Glu Leu Gly Ile Thr Ala Leu His Ile Lys
Leu Arg Ala Thr Gly Gly Asn Arg Thr Lys Thr Pro Gly Pro Gly Ala
            100
                                105
Gln Ser Ala Leu Arg Ala Leu Ala Arg Ser Gly Met Lys Ile Gly Arg
                            120
Ile Glu Asp Val Thr Pro Ile Pro Ser Asp Ser Thr Arg Arg Lys Gly
                        135
Gly Arg Arg Gly Arg Arg Leu
<210> 8022
<211> 540
<212> PRT
<213> Homo sapiens
<400> 8022
Met Leu Pro Ala Val Gly Ser Xaa Asp Glu Glu Glu Asp Pro Ala Glu
Glu Asp Cys Pro Glu Leu Val Pro Ile Glu Thr Thr Gln Ser Glu Glu
Glu Glu Lys Ser Gly Leu Gly Ala Lys Ile Pro Val Thr Ile Ile Thr
                            40
Gly Tyr Leu Gly Ala Gly Lys Thr Thr Leu Leu Asn Tyr Ile Leu Thr
                        55
Glu Gln His Ser Lys Arg Val Ala Val Ile Leu Asn Glu Xaa Gly Glu
                    70
                                        75
Gly Ser Ala Leu Glu Lys Ser Leu Ala Val Ser Gln Gly Gly Glu Leu
Tyr Glu Glu Trp Leu Glu Leu Arg Asn Gly Cys Leu Cys Cys Ser Val
                                105
Lys Asp Asn Gly Leu Arg Ala Ile Glu Asn Leu Met Gln Lys Lys Gly
                            120
Lys Phe Asp Asp Ile Leu Leu Glu Thr Thr Gly Leu Ala Asp Pro Gly
                        135
                                             140
Ala Val Thr Ser Met Phe Trp Val Asp Ala Glu Leu Gly Ser Asp Ile
                    150
                                        155
Tyr Leu Asp Gly Ile Ile Thr Ile Val Xaa Ser Lys Tyr Gly Leu Lys
                165
                                    170
Val Lys Tyr His
            180
<210> 8023
<211> 480
<212> PRT
<213> Homo sapiens
<400> 8023
Met Lys Val His Phe Leu Ile Leu Ser Thr Ser Cys Asp Lys Phe Gln
                                    10
Phe Leu Phe Lys Ser Ile Glu Leu Lys Ser Pro Cys Cys Phe Glu Ile
```

20 25 30
Leu Glu Glu Ser Pro Leu Ile Gln Gly Thr Leu Thr Val Gly Ala Thr
35 40 45

Ala Gly Ser Ile Thr Met Lys Arg Leu Val Cys Val Leu Leu Val Cys Ser Ser Ala Val Ala Gln Leu His Lys Asp Pro Thr Leu Asp His His Trp His Leu Trp Lys Lys Thr Tyr Gly Lys Gln Tyr Lys Glu Lys Asn Glu Glu Ala Val Arg Arg Leu Ile Trp Glu Lys Asn Leu Lys Phe Val 105 Met Leu His Asn Leu Glu His Ser Met Gly Xaa His Ser Tyr Asp Leu 120 Gly Met Asn His Leu Gly Asp Met Thr Ser Glu Glu Val Met Ser Leu 135 Met Ser Ser Leu Arg Val Pro Ser Gln Trp Gln Arg Lys Tyr His Ile 150 155 <210> 8024 <211> 312 <212> PRT <213> Homo sapiens <400> 8024 Met Ser His Thr Ile Leu Leu Val Gln Pro Thr Lys Arg Pro Glu Gly Arg Thr Tyr Ala Asp Tyr Glu Ser Val Asn Glu Cys Met Glu Gly Val 25 Cys Lys Met Tyr Glu Glu His Leu Lys Arg Met Asn Pro Asn Ser Pro

Ala Asp Leu Ser Cys Leu Val Tyr Arg Ala Asp Thr Gln Thr Tyr Gln 65 70 75 80

Pro Tyr Asn Lys Asp Trp Ile Lys Glu Lys Ile Tyr Val Leu Leu Arg 85 90 95

Arg Gln Ala Gln Gln Ala Gly Lys 100

35 40 45 Ser Ile Thr Tyr Asp Ile Ser Gln Leu Phe Asp Phe Ile Asp Asp Leu

<210> 8025 <211> 447

<212> PRT

<213> Homo sapiens

<400> 8025

 Met
 Thr
 Glu
 Pro
 Gly
 Ala
 Ser
 Pro
 Glu
 Asp
 Pro
 Trp
 Val
 Lys
 Val
 Glu
 Glu
 Glu
 Glu
 Asp
 Glu
 Asp
 Phe

 Asp
 Asp
 Asp
 Asp
 Leu
 Gln
 Thr
 Ile
 Val
 Pro
 Thr
 Cys
 Gln
 Gln
 Asp
 Phe

 Asp



Ile Asp Tyr Ile Gln Phe Leu His Lys Glu Lys Lys Lys Gln Glu Glu
100 105 110

Glu Val Ser Thr Leu Arg Lys Asp Val Thr Ala Leu Lys Ile Met Lys 115 120 125

Val Asn Tyr Glu Gln Ile Val Lys Ala His Gln Asp Asn Pro Met Lys
130 135 140

Gly Arg Thr Gly Leu

145

<210> 8026

<211> 306

<212> PRT

<213> Homo sapiens

<400> 8026

Met Val Arg Tyr Arg Val Arg Ser Leu Ser Glu Arg Ser His Glu Val 1 5 10 15

Tyr Arg Gln Gln Leu His Gly Gln Glu Gln Gly His His Gly Gln Glu 20 25 30

Glu Gln Gly Leu Ser Pro Glu His Val Glu Val Tyr Glu Arg Thr His 35 40 45

Gly Gln Ser His Tyr Arg Arg Arg His Cys Ser Arg Arg Arg Leu His
50 55 60

Arg Ile His Arg Arg Gln Ile Ala Pro Ala Glu Gly Ala Lys Asp Ala 65 70 75 80

Pro Ala Gly Thr Gly Xaa Gly Ile Ala Glu Ala Ala Glu Pro Gly Arg 85 90 95

Glu His Ala Glu Gly His

100

<210> 8027

<211> 789

<212> PRT

<213> Homo sapiens

<400> 8027

Met Ala Arg Gly Pro Lys Lys His Leu Lys Arg Val Ala Ala Pro Lys
1 10 15

His Trp Met Leu Asp Lys Leu Thr Gly Val Phe Ala Pro Arg Pro Ser 20 25 30

Thr Gly Pro His Lys Leu Arg Glu Cys Leu Pro Leu Ile Ile Phe Leu 35 40 45

Arg Asn Arg Leu Lys Tyr Ala Leu Thr Gly Asp Glu Val Lys Lys Ile 50 55 60

Cys Met Gln Arg Phe Ile Lys Ile Asp Gly Lys Val Arg Thr Asp Ile 65 70 75 80

Thr Tyr Pro Ala Gly Phe Met Asp Val Ile Ser Ile Asp Lys Thr Gly

Glu Asn Phe Arg Leu Ile Tyr Asp Thr Lys Gly Arg Phe Ala Val His
100 105 110

Arg Ile Thr Pro Glu Glu Ala Lys Tyr Lys Leu Cys Lys Val Arg Lys
115 120 125

Ile Phe Val Gly Thr Lys Gly Ile Pro His Leu Val Thr His Asp Ala
130 135 140



Arg Thr Ile Arg Tyr Pro Asp Pro Leu Ile Lys Val Asn Asp Thr Ile 150 Gln Ile Asp Leu Glu Thr Gly Lys Ile Thr Asp Phe Ile Lys Phe Asp Thr Gly Asn Leu Cys Met Val Thr Gly Gly Ala Asn Leu Gly Arg Ile 185 Gly Val Ile Thr Asn Arg Glu Arg His Pro Gly Ser Phe Asp Val Val 200 His Val Lys Asp Ala Asn Gly Asn Ser Phe Ala Thr Arg Leu Ser Asn 215 220 Ile Phe Val Ile Gly Lys Gly Asn Lys Pro Trp Ile Ser Leu Pro Arg 230 235 Gly Lys Gly Ile Arg Leu Thr Ile Ala Glu Glu Arg Asp Lys Arg Leu 245 250 Ala Ala Lys Gln Ser Ser Gly 260

<210> 8028 <211> 630 <212> PRT <213> Homo sapiens

<400> 8028

Ile Lys Ile Asp Gly Lys Val Arg Thr Asp Ile Thr Tyr Pro Ala Gly Phe Met Asp Val Ile Ser Ile Asp Lys Thr Gly Glu Asn Phe 'Arg Leu 40 Ile Tyr Asp Thr Lys Gly Arg Phe Ala Val His Arg Ile Thr Pro Glu Glu Ala Lys Tyr Lys Leu Cys Lys Val Arg Lys Ile Phe Val Gly Thr 70 75 Lys Gly Ile Pro His Leu Val Thr His Asp Ala Arg Thr Ile Arg Tyr Pro Asp Pro Leu Ile Lys Val Asn Asp Thr Ile Gln Ile Asp Leu Glu 105 Thr Gly Lys Ile Thr Asp Phe Ile Lys Phe Asp Thr Gly Asn Leu Cys 120 Met Val Thr Gly Gly Ala Asn Leu Gly Arg Ile Gly Val Ile Thr Asn Arg Glu Arg His Pro Gly Ser Phe Asp Val Val His Val Lys Asp Ala 150 155 Asn Gly Asn Ser Phe Ala Thr Arg Leu Ser Asn Ile Phe Val Ile Gly 165 170 Lys Gly Asn Lys Pro Trp Ile Ser Leu Pro Arg Gly Lys Gly Ile Arg 180 185 Leu Thr Ile Ala Glu Glu Arg Asp Lys Arg Leu Ala Ala Lys Gln Ser 200 Ser Gly

Met Val Leu Ala Gly Asp Glu Val Lys Lys Ile Xaa Met Gln Arg Phe

<210> 8029 <211> 420

210

<212> PRT <213> Homo sapiens <400> 8029 Met Val Pro Trp Xaa Pro Val Val His Leu Pro Gly Gln Pro Gln Arg Met Met Gly Pro Leu Ser Gln Ala Ser Arg Tyr Ile Gly Pro Gln Asn 25 Phe Tyr Gln Val Lys Asp Ile Arg Arg Pro Glu Arg Arg His Ser Asp Pro Trp Gly Arg Gln Asp Gln Gln Leu Asp Arg Pro Phe Asn Arg Gly Lys Gly Asp Arg Gln Arg Phe Tyr Ser Asp Ser His His Leu Lys Arg Glu Arg His Glu Lys Glu Trp Glu Gln Glu Ser Glu Arg His Arg 90 Arg Arg Asp Arg Ser Xaa Asp Arg Thr Glu Thr Glu Lys Ala Gly Arg 105 Lys Gly Thr Lys Ile Lys Arg Gly His Gly Tyr His Met Val Ile Glu 120 Glu Gln Met Glu Lys Gln Ala Glu Ile Val Gly Met 130 <210> 8030 <211> 333 <212> PRT <213> Homo sapiens <400> 8030 Met Val Val Thr Arg Ser Ala Arg Ala Lys Ala Ser Ile Gln Ala Ala Ser Ala Glu Ser Ser Gly Gln Lys Ser Phe Ala Ala Asn Gly Ile Gln Ala His Pro Glu Ser Ser Thr Gly Ser Asp Ala Arg Thr Thr Ala Glu Ser Gln Thr Thr Gly Lys Gln Ser Leu Ile Pro Arg Thr Pro Lys Ala 55 Arg Lys Arg Lys Ser Arg Thr Thr Gly Ser Leu Pro Lys Gly Thr Glu Pro Ser Thr Asp Gly Glu Thr Ser Glu Ala Glu Ser Asn Tyr Ser Val 90 Ser Glu His Met Ile His Phe Lys Gly Thr Arg Arg Gly Arg Ser 100 105 <210> 8031 <211> 336 <212> PRT <213> Homo sapiens <400> 8031 Met Ala Val Thr Thr Arg Leu Thr Trp Leu His Glu Lys Ile Leu Gln Asn His Phe Gly Gly Lys Arg Leu Ser Leu Leu Tyr Lys Gly Ser Val

30

20

<210> 8032 <211> 384 <212> PRT <213> Homo sapiens

<400> 8032

 Met
 Ala
 Gly
 Asn
 Leu
 Leu
 Ser
 Gly
 Ala
 Gly
 Arg
 Arg
 Leu
 Trp
 Asp
 Trp

 Val
 Pro
 Leu
 Arg
 Ser
 Phe
 Ser
 Leu
 Gly
 Val
 Pro
 Arg
 Leu
 Ile
 Ile

<210> 8033 <211> 456 <212> PRT <213> Homo sapiens

<400> 8033

 Met
 Gly
 Lys
 Gln
 Lys
 Lys
 Thr
 Arg
 Lys
 Tyr
 Ala
 Thr
 Met
 Lys
 Arg
 Met

 Leu
 Ser
 Leu
 Asp
 Asp
 Glu
 Lys
 Glu
 Lys
 Asp
 Arg
 Leu
 Lys
 Pro

 Lys
 Lys
 Lys
 Asp
 Pro
 Ser
 Ala
 Leu
 Lys
 Glu
 Arg
 Glu
 Val

 Asp
 Lys
 Lys
 Asp
 Pro
 Ser
 Ala
 Leu
 Lys
 Glu
 Arg
 Glu
 Val

 Asp
 His
 Pro
 Ser
 Cys
 Leu
 Phe
 Phe
 Phe
 Glu
 Tyr
 Asn
 Thr
 Glu
 Asn
 Thr
 Asn
 Thr
 Asn
 Phe
 Ile
 Asn

```
Leu Gly Gln Lys Tyr Arg Val Ala Leu Arg Ile Ala Lys Asp Pro Arg
                            120
Phe Glu Arg Leu Pro Cys Thr His Lys Gly Thr Tyr Ala Asp Asp Cys
Leu Ser Thr Glu Ser Asn Ser Ala
<210> 8034
<211> 348
<212> PRT
<213> Homo sapiens
<400> 8034
Met Ser Glu Ser Leu Xaa Val Cys Asp Val Ala Glu Asp Leu Val Glu
Lys Leu Arg Lys Phe Arg Phe Arg Lys Glu Thr Asn Asn Ala Ile
Ile Met Lys Ile Asp Lys Asp Lys Arg Leu Val Val Leu Asp Glu Glu
                            40
Leu Glu Gly Ile Ser Pro Asp Glu Leu Lys Asp Glu Leu Pro Glu Arg
                        55
Gln Pro Arg Thr Phe Ile Val Tyr Ser Tyr Lys Tyr Gln His Asp Asp
                                        75
Gly Arg Val Ser Tyr Pro Leu Cys Phe Ile Phe Ser Ser Pro Val Gly
                                   90
Cys Lys Xaa Glu Gln Gln Met Met Tyr Ala Gly Ser Lys Asn Lys Ala
Ser Pro Asp Ser
       115
<210> 8035
<211> 387
<212> PRT
<213> Homo sapiens
<400> 8035
Met Ala Asn Lys Gly Pro Ser Tyr Gly Met Ser Arg Glu Val Gln Ser
Lys Ile Glu Lys Lys Tyr Asp Glu Glu Leu Glu Arg Leu Val Glu
Trp Ile Ile Val Gln Cys Gly Pro Asp Val Gly Arg Pro Asp Arg Gly
                            40
Arg Leu Gly Phe Gln Val Trp Leu Lys Asn Gly Val Ile Leu Ser Lys
Leu Val Asn Ser Leu Tyr Pro Asp Gly Ser Lys Pro Val Lys Val Pro
                                        75
Glu Asn Pro Pro Ser Met Val Phe Lys Gln Met Glu Gln Val Ala Gln
                                    90
Phe Leu Lys Ala Ala Glu Asp Tyr Gly Val Ile Lys Thr Asp Met Phe
                                105
```

Gln Thr Val Asp Leu Phe Glu Xaa Lys Thr Trp Gln Gln Cys Arg Gly

120

115

Pro

```
<210> 8036
<211> 327
<212> PRT
<213> Homo sapiens
<400> 8036
Met Ala Ala Glu Glu Glu Asp Glu Val Glu Trp Val Val Glu Ser Ile
Ala Gly Phe Leu Arg Gly Pro Asp Trp Ser Ile Pro Ile Leu Asp Phe
                                25
Val Glu Gln Lys Cys Glu Val Phe Asp Asp Glu Glu Glu Ser Lys Leu
Thr Tyr Thr Glu Ile His Gln Glu Tyr Lys Glu Leu Val Glu Lys Leu
Leu Glu Gly Tyr Leu Lys Glu Ile Gly Ile Asn Glu Asp Gln Phe Gln
                                        75
Glu Ala Cys Thr Ser Pro Xaa Cys Lys Asp Pro Tyr Ile Thr Gly His
Phe Ala Thr Cys Val Gly Ser Arg Arg Phe Tyr Tyr Leu
            100
<210> 8037
<211> 315
<212> PRT
<213> Homo sapiens
<400> 8037
Met Val Lys Gln Ile Glu Ser Lys Thr Ala Phe Gln Glu Ala Leu Asp
Ala Ala Gly Asp Lys Leu Val Val Asp Phe Ser Ala Thr Trp Cys
Gly Pro Cys Lys Met Ile Lys Pro Phe Phe His Ser Leu Ser Glu Lys
                            40
Tyr Ser Asn Val Ile Phe Leu Glu Val Asp Val Asp Asp Cys Gln Asp
Val Ala Ser Glu Cys Glu Val Lys Cys Met Pro Thr Phe Gln Phe Phe
                    70
                                        75
Lys Lys Gly Gln Lys Val Gly Glu Phe Ser Gly Ala Asn Lys Glu Lys
Leu Glu Ala Thr Ile Asn Glu Leu Val
            100
<210> 8038
<211> 396
<212> PRT
<213> Homo sapiens
<400> 8038
Met Val Glu Ala Phe Cys Ala Thr Trp Lys Leu Thr Asn Ser Gln Asn
Phe Asp Glu Tyr Met Lys Ala Leu Gly Val Gly Phe Ala Thr Arg Gln
                                25
```

Val Gly Asn Val Thr Lys Pro Thr Val Ile Ile Ser Gln Glu Gly Asp

40

35



Lys Val Val Ile Arg Thr Leu Ser Thr Phe Lys Asn Thr Glu Ile Ser 50 55 60
Phe Gln Leu Gly Glu Glu Phe Asp Glu Thr Thr Ala Xaa Tyr Arg Asn

of the Gir Gir Gir Phe Asp Gir Int Thr Ala Xaa Tyr Arg Ash 65 70 75 80

Cys Lys Ser Val Val Ser Leu Asp Gly Asp Lys Leu Val His Ile Gln 85 90 95

Lys Trp Asp Gly Lys Glu Thr Asn Phe Val Arg Glu Ile Lys Asp Gly
100 105 110

Lys Met Val Met Thr Leu Thr Phe Gly Asp Val Val Ala Val Arg Xaa 115 120 125

Tyr Glu Xaa Ala 130

<210> 8039

<211> 363

<212> PRT

<213> Homo sapiens

<400> 8039

Met Lys Arg Phe Tyr Leu Pro Gly Thr Ser Arg Pro Pro Ile Ile Val 1 5 10 15

Ser Glu Phe Arg Asn Glu Ile Tyr Asp Val Arg His Arg Ala Ala Tyr 20 25 30

His Pro Asp Phe Pro Thr Val Leu Thr Ala Leu Glu Ile Asp Asn Ala 35 40 45

Val Val Ala Asn Ser Leu Ile Asp Met Arg Gly Ile Glu Thr Val Leu 50 55 60

Leu Ile Lys Asn Asn Ser Val Ala Arg Ala Val Met Gln Ser Gln Lys 65 70 75 80

Pro Pro Lys Asn Cys Arg Glu Ala Phe Thr Ala Asp Gly Asp Gln Val 85 90 95

Phe Ala Gly Arg Tyr Tyr Ser Ser Glu Asn Thr Arg Pro Lys Phe Leu 100 105 110

Ser Arg Asp Val Asp Ser Glu Asn Lys

<210> 8040

<211> 414

<212> PRT

<213> Homo sapiens

<400> 8040

Met Glu Thr Ser Ala Pro Arg Ala Gly Ser Gln Val Val Ala Thr Thr
1 5 10 15

Ala Arg His Ser Ala Ala Tyr Arg Ala Asp Pro Leu Arg Val Ser Ser 20 25 30

Arg Asp Lys Leu Thr Glu Met Ala Ala Ser Ser Gln Gly Asn Phe Glu

Gly Asn Phe Glu Ser Leu Asp Leu Ala Glu Phe Ala Lys Lys Gln Pro 50 55 60

Trp Trp Arg Xaa Cys Ser Gly Arg Asn Leu Asp Leu Gln Gln Lys Ser 65 70 75 80

Ile Ala Trp Gln Pro Ser Cys Ser Leu Glu Val Ser Leu Asp Gly Ala 85 90 95 <210> 8041 <211> 387 <212> PRT <213> Homo sapiens

<400> 8041

 Met
 Arg
 Arg
 Gly
 Glu
 Ile
 Asp
 Met
 Ala
 Thr
 Glu
 Glu
 Glu
 Glu
 Ile
 Asp
 Met
 Ala
 Thr
 Glu
 Glu
 Ile
 I

Leu Ile Met Thr Glu Met Glu Ile Ser Arg Ala Ala Ala Glu Arg Ser

100 105 110

Leu Arg Glu His Met Gly Asn Val Val Glu Ala Leu Ile Ala Leu Thr 115 120 125

Asn

<210> 8042 <211> 375 <212> PRT <213> Homo sapiens

<400> 8042

 Met
 Glu
 Pro
 Asp
 Gly
 Thr
 Tyr
 Glu
 Pro
 Gly
 Phe
 Val
 Gly
 Ile
 Arg
 Phe

 Cys
 Glu
 Cys
 Asn
 Asn
 Met
 Leu
 Tyr
 Pro
 Lys
 Glu
 Asp
 Lys
 Glu
 Asn
 Cys
 Asn
 Asn

105

Val Cys Thr Ala Pro His Cys Gly Xaa Arg Trp Thr Glu 115 120 125

35

```
<210> 8043
<211> 318
<212> PRT
<213> Homo sapiens
<400> 8043
Met Ala Thr Pro Gly Pro Val Ile Pro Glu Val Pro Phe Glu Pro Ser
                                     10
Lys Pro Pro Val Ile Glu Gly Leu Ser Pro Thr Val Tyr Arg Asn Pro
Glu Ser Phe Lys Glu Lys Phe Val Arg Lys Thr Arg Glu Asn Pro Val
Val Pro Ile Gly Cys Leu Ala Thr Ala Ala Ala Leu Thr Tyr Gly Leu
                        55
Tyr Ser Phe His Arg Gly Asn Ser Gln Arg Ser Gln Leu Met Met Arg
                                         75
Thr Arg Ile Ala Ala Gln Gly Phe Thr Val Ala Ala Ile Leu Leu Gly
                85
Leu Ala Val Thr Ala Met Lys Ser Arg Pro
<210> 8044
<211> 303
<212> PRT
<213> Homo sapiens
<400> 8044
Met Ala Ala Trp Ser Pro Ala Ala Ala Xaa Leu Ser Ser Ala Gly Ser
Ala Gly Phe His Phe Thr Ile Gly Cys Leu Pro Leu Ser Thr Glu Gly
                                 25
Glu Leu Arg Val Thr Xaa Ile Leu Lys Glu Lys Phe Pro Arg Ala Thr
Ala Ile Lys Val Thr Asp Ile Ser Gly Thr Lys Arg Arg Asn Gln Arg
Asp Ala Trp Ile Ala Asp Ile Tyr Leu Xaa Pro Gln Thr Leu Thr Thr
                    70
                                        75
Pro Trp Leu His Arg Cys Cys Cys Leu Arg Pro Trp Met Asn Phe Thr
                                    90
Asp Ile Ile Leu Pro
            100
<210> 8045
<211> 315
<212> PRT
<213> Homo sapiens
<400> 8045
Met Gly Glu Arg Leu Ala Lys Ala Ser His Glu Ser Lys Ala Ser Glu
Ile Glu Tyr Lys Leu Gly Lys Val Asn Asp Arg Trp Gln His Leu Leu
                                25
Asp Leu Ile Ala Ala Arg Val Lys Lys Leu Lys Glu Thr Leu Val Ala
```

45

Val Gln Gln Leu Asp Lys Asn Met Ser Ser Leu Arg Thr Trp Leu Ala His Ile Glu Ser Glu Leu Ala Lys Pro Ile Val Tyr Asp Ser Cys Asn 75 Ser Glu Glu Ile Gln Arg Trp Ile Cys Ser Ser Leu Ile Leu Asn Ile 90 Phe Leu Ser Val Met Phe Lys Leu Lys

100

<210> 8046

<211> 303

<212> PRT

<213> Homo sapiens

<400> 8046

Met Asp Arg Arg Asn Asp Tyr Gly Tyr Arg Val Pro Leu Phe Gln Gly

Pro Leu Pro Pro Pro Gly Ser Leu Gly Leu Pro Phe Pro Pro Asp Ile 25

Gln Thr Glu Thr Thr Glu Glu Asp Ser Val Leu Leu Met His Thr Leu 40

Leu Ala Ala Thr Lys Asp Ser Leu Ala Met Asp Pro Pro Val Val Asn 55

Arg Pro Lys Lys Ser Xaa Thr Lys Lys Ala Pro Ile Lys Thr Ile Thr 75

Xaa Xaa Ala Pro Ala Ala Pro Pro Val Gln Leu Pro Met Arg Leu Pro 90

Pro Thr Ser Pro Lys

100

<210> 8047

<211> 366

<212> PRT

<213> Homo sapiens

<400> 8047

Met Lys Pro Glu Met Trp Gly Lys Cys Leu Asp Cys Ile Asn Glu Leu

Met Asp Ile Leu Phe Ala Asn Pro Asn Ile Phe Val Gly Glu Asn Ile

Leu Glu Glu Ser Glu Asn Leu His Asn Ala Asp Gln Pro Leu Arg Val 40

Arg Gly Cys Ile Leu Thr Leu Val Glu Arg Met Asp Glu Glu Phe Thr 55

Lys Ile Met Gln Asn Thr Asp Pro His Ser Gln Glu Tyr Val Glu His 70 75

Leu Lys Asp Glu Ala Gln Val Cys Ala Ile Ile Glu Arg Val Gln Arg 90

Tyr Leu Xaa Xaa Glu Gly His Tyr Arg Gly Gly Leu Pro His Leu Pro 105

Ala Ala His Pro Ala His Leu Leu Gln Val

115

<210> 8048

```
<211> 333
<212> PRT
<213> Homo sapiens
<400> 8048
Met Gln Ser Ser Trp His Val Val Ser Arg Ile Phe Trp Ile Glu Glu
Val Ile Gly Ser Ile Pro Leu Lys Ala Met Glu Leu Ala Ile Val Cys
                                 25
Phe Leu Ile Glu Gly Pro Phe Val Arg Met Leu Lys Ile Cys Val Pro
Phe Lys Xaa Lys Ala Xaa Phe Lys Ser Xaa Xaa Gln Lys Tyr Pro Phe
                         55
Ser Phe Ser Met Val Tyr Phe Ser Arg Phe Ser Val Pro Pro Ser Val
Val Lys Ser Phe Leu Tyr Ser Trp Gln Cys Gln Glu Tyr Trp Phe Glu
Lys Leu Leu Ala Tyr Leu Glu Phe Gly Leu Val Asn Leu Val Phe
            100
                                 105
<210> 8049
<211> 372
<212> PRT
<213> Homo sapiens
<400> 8049
Met Pro Asp Gly Gln Phe Lys Asp Ile Ser Leu Ser Asp Tyr Lys Gly
Lys Tyr Val Val Phe Phe Phe Tyr Pro Leu Asp Phe Thr Phe Val Cys
Pro Thr Glu Ile Ile Ala Phe Ser Asp Arg Ala Glu Glu Phe Lys Lys
                            40
Leu Asn Cys Gln Val Ile Gly Ala Ser Val Asp Ser His Phe Cys His
Leu Ala Trp Val Asn Thr Pro Lys Lys Gln Gly Gly Leu Gly Pro Met
                    70
                                         75
Asn Ile Pro Leu Val Ser Asp Pro Lys Arg Thr Ile Ala Gln Asp Tyr
Gly Val Leu Lys Ala Asp Glu Ala Ser Arg Ser Gly Ala Phe Leu Ser
Leu Met Ile Xaa Tyr Ser Ser Ala Asp His Cys Lys
<210> 8050
<211> 375
<212> PRT
<213> Homo sapiens
<400> 8050
Met Ala Met Gln Ala Ala Lys Arg Ala Asn Ile Arg Leu Pro Pro Glu
```

Val Asn Arg Ile Leu Tyr Ile Arg Asn Leu Pro Tyr Lys Ile Thr Ala

Glu Glu Met Tyr Asp Ile Phe Gly Lys Tyr Gly Pro Ile Arg Gln Ile

50

35 40 Arg Val Gly Asn Thr Pro Glu Thr Arg Gly Thr Ala Tyr Val Val Tyr Glu Asp Ile Phe Asp Ala Lys Asn Ala Cys Asp His Leu Ser Gly Phe Asn Val Cys Asn Arg Tyr Leu Val Val Leu Tyr Tyr Asn Ala Asn Arg 90 Ala Phe Gln Lys Met Asp Thr Lys Lys Lys Glu Glu Gln Leu Lys Leu 105 Leu Lys Glu Lys Tyr Gly Ile Asn Thr Asp Pro Pro Lys <210> 8051 <211> 483 <212> PRT <213> Homo sapiens <400> 8051 Met Ala Asp Tyr Leu Ile Ser Gly Gly Thr Ser Tyr Val Pro Asp Asp Gly Leu Thr Ala Gln Gln Leu Phe Asn Cys Gly Asp Gly Leu Thr Tyr Asn Asp Phe Leu Ile Leu Pro Gly Tyr Ile Asp Phe Thr Ala Asp Gln Val Asp Leu Thr Ser Ala Leu Thr Lys Lys Ile Thr Leu Lys Thr Pro 55 Leu Val Ser Ser Pro Met Asp Thr Val Thr Glu Ala Gly Met Ala Ile 75 Ala Met Ala Leu Thr Gly Gly Ile Gly Phe Ile His His Asn Cys Thr Pro Glu Phe Gln Ala Asn Glu Val Arg Lys Val Xaa Xaa Tyr Glu Gln 105 Gly Phe Ile Thr Asp Pro Val Val Leu Ser Pro Lys Asp Arg Val Arg 120 Asp Val Phe Glu Ala Arg Pro Ala Trp Phe Leu Arg Tyr Pro Asn His 135 Xaa His Arg Pro Asp Gly Glu Pro Leu Val Ala Xaa Ser Pro Xaa Gly <210> 8052 <211> 378 <212> PRT <213> Homo sapiens <400> 8052 Met Ala Asp Glu Ile Ala Lys Ala Gln Val Ala Arg Pro Gly Gly Asp Thr Ile Phe Gly Lys Ile Ile Arg Lys Glu Ile Pro Ala Lys Ile Ile

20 25 30 Phe Glu Asp Asp Arg Cys Leu Ala Phe His Asp Ile Ser Pro Gln Ala

Pro Thr His Phe Leu Val Ile Pro Lys Lys His Ile Ser Gln Ile Ser

55



Val Ala Glu Asp Asp Asp Glu Ser Leu Leu Gly His Leu Met Ile Val Gly Lys Lys Cys Ala Ala Asp Leu Gly Leu Asn Lys Gly Tyr Arg Met 90 Val Val Asn Glu Gly Ser Asp Gly Gly Gln Ser Val Tyr His Val His 105 Leu His Val Leu Gly Gly Arg Gln Met His Trp Pro Pro Gly

120

<210> 8053

<211> 318

<212> PRT

<213> Homo sapiens

<400> 8053

Met Ala Gln Glu Phe Val Asn Cys Lys Ile Gln Pro Gly Lys Val Val 10 Val Phe Ile Lys Pro Thr Cys Pro Tyr Cys Arg Arg Ala Gln Glu Ile Leu Ser Gln Leu Pro Ile Lys Gln Gly Leu Leu Glu Phe Val Asp Ile Thr Ala Thr Asn His Thr Asn Glu Ile Gln Asp Tyr Leu Gln Gln Leu

55 Thr Gly Ala Arg Thr Val Pro Arg Val Phe Ile Gly Lys Asp Cys Ile

Gly Gly Cys Ser Asp Leu Val Ser Leu Gln Gln Ser Gly Glu Leu Leu 85

Thr Arg Leu Lys Gln Ile Gly Ala Leu Gln

<210> 8054

<211> 462

<212> PRT

<213> Homo sapiens

<400> 8054

Met Ala Gln Ser Ile Asn Ile Thr Glu Leu Asn Leu Pro Gln Leu Glu

Met Leu Lys Asn Gln Leu Asp Gln Glu Val Glu Phe Leu Ser Thr Ser

Ile Ala Gln Leu Lys Val Val Gln Thr Lys Tyr Val Glu Ala Lys Asp

Cys Leu Asn Val Leu Asn Lys Ser Asn Glu Gly Lys Glu Leu Leu Val 55

Pro Leu Thr Ser Ser Met Tyr Val Pro Gly Lys Leu His Asp Val Glu 70 75

His Val Leu Ile Asp Val Gly Thr Gly Tyr Tyr Val Glu Lys Thr Ala

Glu Asp Ala Lys Asp Phe Phe Lys Arg Lys Ile Asp Phe Leu Thr Lys 105

Gln Met Glu Lys Ile Gln Pro Ala Leu Gln Glu Lys His Ala Met Lys 120

Gln Ala Val Met Glu Met Met Ser Gln Lys Ile Gln Gln Leu Thr Ala 130 135 140

```
Leu Gly Ala Ala Gln Ala Thr Ala Lys Ala
145
<210> 8055
<211> 321
<212> PRT
<213> Homo sapiens
<400> 8055
Met Arg Leu Ser Ala Leu Leu Ala Leu Ala Ser Lys Val Thr Leu Pro
Pro His Tyr Arg Tyr Gly Met Ser Pro Pro Gly Ser Val Ala Asp Lys
                                25
Arg Lys Asn Pro Pro Trp Ile Arg Arg Pro Val Val Val Glu Pro
Ile Ser Asp Glu Asp Trp Tyr Leu Phe Cys Gly Asp Thr Val Glu Ile
Leu Glu Gly Lys Asp Ala Gly Lys Gln Gly Lys Val Val Gln Val Ile
                    70
                                         75
Arg Gln Arg Asn Trp Val Val Val Gly Gly Leu Asn Thr His Tyr Arg
Tyr Ile Gly Lys Thr Met Asp Tyr Arg Gly Thr
            100
<210> 8056
<211> 366
<212> PRT
<213> Homo sapiens
<400> 8056
Met Ala Glu Lys Pro Lys Leu His Tyr Phe Asn Ala Arg Gly Arg Met
                                    10
Glu Ser Thr Arg Trp Leu Leu Ala Ala Ala Gly Val Glu Phe Glu Glu
Lys Phe Ile Lys Ser Ala Glu Asp Leu Asp Lys Leu Arg Asn Asp Gly
                            40
Tyr Leu Met Phe Gln Gln Val Pro Met Val Glu Ile Asp Gly Met Lys
Leu Val Gln Thr Arg Ala Ile Leu Asn Tyr Ile Ala Ser Lys Tyr Asn
Leu Tyr Gly Lys Asp Ile Lys Glu Arg Ala Leu Ile Asp Met Tyr Ile
                                    90
Glu Gly Ile Ala Asp Leu Gly Glu Met Ile Leu Leu Pro Val Cys
                                105
Pro Pro Glu Glu Lys Met Pro Ser Leu Pro
        115
                            120
<210> 8057
<211> 312
<212> PRT
<213> Homo sapiens
<400> 8057
Met Thr Phe Arg Ala Thr Asp Ser Glu Phe Asp Leu Thr Asn Ile Glu
```

<210> 8058 <211> 324 <212> PRT <213> Homo sapiens

<400> 8058

 Met
 Ile
 His
 Ser
 Leu
 Phe
 Leu
 Ile
 Asn
 Cys
 Ser
 Gly
 Asp
 Ile
 Phe
 Leu

 Ile
 Lys
 His
 Trp
 Lys
 Ser
 Val
 Val
 Ser
 Gln
 Ser
 Gln
 Cys
 Asp
 Tyr
 Phe

 Ile
 Ala
 Gln
 Gln
 Lys
 Ala
 Ala
 Asp
 Val
 Gln
 Asp
 Pro
 Pro
 Pro
 Pro
 Val
 Pro
 Pro
 Val
 Ile
 Ile

<210> 8059 <211> 381 <212> PRT <213> Homo sapiens

<400> 8059

 Met
 Ala
 Ser
 Gly
 Val
 Ala
 Val
 Ser
 Asp
 Gly
 Val
 Ile
 Lys
 Val
 Phe
 Asp

 Asp
 Met
 Lys
 Val
 Arg
 Lys
 Ser
 Ser
 Thr
 Pro
 Glu
 Glu
 Val
 Lys
 Lys
 Arg

 Lys
 Lys
 Ala
 Val
 Leu
 Phe
 Cys
 Leu
 Ser
 Glu
 Asp
 Lys
 Lys
 Asn
 Ile
 Ile

 Leu
 Glu
 Glu
 Gly
 Lys
 Glu
 Ile
 Leu
 Val
 Gly
 Asp
 Val
 Gly
 Gly
 Asp
 Cys

 Asp
 Asp
 Pro
 Tyr
 Ala
 Thr
 Phe
 Val
 Lys
 Met
 Leu
 Pro
 Asp
 Lys
 Cys

 Asp
 Tyr
 Ala
 Thr
 Phe
 Val
 Tyr
 Glu
 Thr
 Lys
 Glu
 Ser
 Lys
 Lys

 Arg
 Tyr
 Ala
 Thr
 Tyr
 Ala
 Pro
 G

```
100
                                105
Ser Lys Met Ile Tyr Ala Ser Ser Lys Xaa Pro Ser Arg Arg Ser
                            120
<210> 8060
<211> 384
<212> PRT
<213> Homo sapiens
<400> 8060
Met Ala Gly Ser Gly Val Arg Gln Xaa Thr Ser Thr Ala Ser Thr Phe
Val Lys Pro Ile Phe Ser Arg Asp Met Asn Glu Ala Lys Arg Arg Val
                                25
Arg Glu Leu Tyr Arg Ala Trp Tyr Arg Glu Val Pro Asn Thr Val His
                            40
Gln Phe Gln Leu Asp Ile Thr Val Lys Met Gly Arg Asp Lys Val Arg
                        55
Glu Met Phe Met Lys Asn Ala His Val Thr Asp Pro Arg Val Val Asp
Leu Leu Val Ile Lys Gly Lys Ile Glu Leu Glu Glu Thr Ile Lys Val
Trp Lys Gln Arg Thr His Val Met Arg Phe Phe His Glu Thr Glu Ala
Pro Arg Pro Lys Asp Phe Leu Ser Lys Phe Tyr Val Gly His Asp Pro
                            120
<210> 8061
<211> 360
<212> PRT
<213> Homo sapiens
<400> 8061
Met Ala Ala Val Ala Ala Ala Gly Ala Gly Glu Pro Gln Ser Pro
Asp Glu Leu Pro Lys Gly Asp Ala Glu Lys Pro Glu Glu Leu
                                25
Glu Glu Asp Asp Asp Glu Glu Leu Asp Glu Thr Leu Ser Glu Arg Leu
Trp Gly Leu Thr Glu Met Phe Pro Glu Arg Val Arg Ser Ala Ala Gly
Ala Thr Phe Asp Leu Ser Leu Phe Val Ala Gln Lys Met Tyr Arg Phe
                                        75
Ser Arg Ala Ala Leu Trp Ile Gly Thr Thr Ser Phe Met Ile Leu Val
                                    90
Leu Pro Val Val Phe Glu Thr Glu Lys Leu Gln Met Glu Gln Gln Gln
            100
Gln Leu Xaa Ser Gly Arg Tyr Phe
<210> 8062
<211> 387
<212> PRT
<213> Homo sapiens
```



```
<400> 8062
Met Lys Met Phe Glu Ser Ala Asp Ser Thr Ala Thr Arg Ser Gly Gln
Asp Leu Trp Ala Glu Ile Cys Ser Cys Leu Pro Asn Pro Glu Gln Glu
                                25
Asp Gly Ala Asn Asn Ala Phe Ser Asp Ser Phe Val Asp Ser Cys Pro
                            40
Glu Gly Glu Gly Gln Arg Glu Val Ala Asp Phe Ala Val Gln Pro Ala
Val Lys Pro Trp Ala Pro Leu Gln Asp Ser Glu Val Tyr Leu Ala Ser
Leu Glu Lys Lys Leu Arg Arg Ile Lys Gly Leu Asn Gln Glu Val Thr
                                    90
Ser Lys Asp Met Leu Arg Thr Leu Gly Pro Ser Gln Glu Gly Met Leu
                                105
Gly Ser Val Pro Pro Gly Glu Val Ser Phe Arg Val Leu Cys Gly Trp
        115
                            120
Thr
<210> 8063
<211> 318
<212> PRT
<213> Homo sapiens
<400> 8063
Met Gly Lys Val Ile Ile Leu Thr Ala Ala Ala Gln Gly Ile Gly Gln
                                    10
Ala Ala Leu Ala Phe Ala Arg Glu Gly Ala Lys Val Ile Ala Thr
Asp Ile Asn Glu Ser Lys Leu Gln Glu Leu Glu Lys Tyr Pro Gly Ile
                            40
Gln Thr Arg Val Leu Asp Val Thr Lys Lys Lys Gln Ile Asp Gln Phe
                        55
Ala Asn Glu Val Glu Arg Leu Asp Val Leu Phe Asn Val Ala Gly Phe
                    70
                                        75
Val His His Gly Thr Val Leu Asp Cys Glu Glu Lys Asp Trp Asp Phe
Ser Met Asn Leu Asn Val Arg Xaa Cys Thr
            100
<210> 8064
<211> 339
```

<212> PRT

<213> Homo sapiens

<400> 8064

Met Ala Ala Ile Pro Pro Asp Ser Trp Gln Pro Pro Asn Val Tyr Leu Glu Thr Ser Met Gly Ile Ile Val Leu Glu Leu Tyr Trp Lys His Ala 25 Pro Lys Thr Xaa Lys Asn Phe Ala Glu Leu Ala Arg Arg Gly Tyr Tyr Asn Gly Xaa Lys Phe His Arg Ile Ile Lys Asp Phe Met Ile Gln Gly

```
50
                        55
Gly Asp Pro Thr Gly Thr Gly Arg Gly Gly Ala Ser Ile Tyr Gly Lys
Gln Phe Glu Asp Glu Leu His Pro Asp Leu Lys Phe Thr Gly Ala Glu
                85
                                    90
Phe Ser Gln Trp Pro Met Arg Gly Gln Ile Pro Xaa Ala Ala Ser Ser
            100
                                105
Leu
<210> 8065
<211> 315
<212> PRT
<213> Homo sapiens
<400> 8065
Met Arg Gln Pro Tyr Leu Ser Ser Arg Glu Val Ser Ser Ser Arg Lys
                                    10
Arg Trp Arg Thr Phe Pro Val Asp Cys Val Ala Met Cys Gly Asp Cys
                                25
Val Glu Lys Glu Tyr Pro Asn Arg Gly Asn Thr Cys Leu Glu Asn Gly
Ser Phe Leu Leu Asn Phe Thr Gly Cys Ala Val Cys Ser Lys Arg Asp
                        55
Phe Met Leu Ile Thr Asn Lys Ser Leu Xaa Xaa Glu Asp Gly Glu Xaa
                    70
                                        75
Ile Val Thr Tyr Asp Arg Val Tyr His Ala Val Ser Val Met Arg Gln
                85
Ser Arg Arg Tyr Tyr Gln Tyr Ser Pro
<210> 8066
<211> 366
<212> PRT
<213> Homo sapiens
<400> 8066
Met Pro His Pro Tyr Ser Arg Asn Glu Asn Asn Gly Gly Arg Gly Ala
               5
Glu Asp Ser Ser Met Gln Leu Thr Thr Arg Arg Gln Lys Ala Glu Ala
Gly Val Leu Glu Asn Leu Ala Val Leu Glu Phe Thr Leu Thr Pro Pro
                            40
Arg Ser Ser Ala Ala Glu Pro Ser Ser Pro Ala Leu Pro Gly Ala Arg
                        55
Trp Arg Trp Phe Cys Cys Gln Leu Gly Glu Thr Glu Leu Gly His Ala
                    70
                                        75
Arg Trp Arg Arg Pro Pro Cys Cys Val Pro Phe Pro Gly Cys Trp Pro
                                    90
Pro Pro Gly Ser Arg Ala Ala Leu Gln Cys Asp Gln Ser Ser Thr Cys
                                105
Glu Ser Arg Arg Met Pro Asn Leu Thr Gly
```

<210> 8067

120



<211> 498

<212> PRT

<213> Homo sapiens

<400> 8067

Met Leu Phe Asn Asn Lys Glu Lys Tyr Thr Phe Glu Glu Ile Gln Gln 1 5 10 15

Glu Thr Asp Ile Pro Glu Arg Glu Leu Val Arg Ala Leu Gln Ser Leu
20 25 30

Ala Cys Gly Lys Pro Thr Gln Arg Val Leu Thr Lys Glu Pro Xaa Ser

Lys Glu Ile Glu Asn Gly His Ile Phe Thr Val Asn Asp Gln Phe Thr 50 55 60

Ser Lys Leu His Arg Val Lys Ile Gln Thr Val Ala Ala Lys Gln Gly
70 75 80

Glu Ser Asp Pro Glu Arg Lys Glu Thr Arg Gln Lys Val Asp Asp Asp 85 90 95

Arg Lys His Glu Ile Glu Ala Ala Ile Val Arg Ile Met Lys Ser Arg
100 105 110

Lys Lys Met Gln His Asn Val Leu Val Ala Glu Val Thr Gln Gln Leu 115 120 125

Lys Ala Arg Phe Leu Pro Ser Pro Val Val Ile Lys Lys Arg Ile Glu 130 135 140

Gly Leu Ile Glu Arg Glu Tyr Leu Ala Arg Thr Pro Glu Asp Arg Lys 145 150 155 160

Val Tyr Thr Tyr Val Ala

165

<210> 8068

<211> 378

<212> PRT

<213> Homo sapiens

<400> 8068

Met Ala Ala Ser Arg Tyr Arg Arg Phe Leu Lys Leu Cys Glu Glu Trp
1 10 15

Pro Val Asp Glu Thr Lys Arg Gly Arg Asp Leu Gly Ala Tyr Leu Arg
20 25 30

Gln Arg Val Ala Gln Ala Phe Arg Glu Gly Glu Asn Thr Gln Val Ala 35 40 45

Glu Pro Glu Ala Cys Asp Gln Met Tyr Glu Ser Leu Ala Arg Leu His
50 55 60

Ser Asn Tyr Tyr Lys His Lys Tyr Pro Arg Pro Arg Asp Thr Ser Phe 65 70 75 80

Ser Gly Leu Ser Leu Glu Glu Tyr Lys Leu Ile Leu Ser Thr Asp Thr
85 90 95

Leu Glu Glu Leu Lys Glu Ile Asp Lys Gly Met Trp Lys Lys Leu Gln
100 105 110

Glu Lys Phe Ala Pro Lys Gly Pro Glu Glu Asp His Lys Ala 115 120 125

<210> 8069

<211> 441

<212> PRT



<213> Homo sapiens

```
<400> 8069
Met Gly His Phe Thr Glu Glu Asp Lys Ala Thr Ile Thr Ser Leu Trp
Gly Lys Val Asn Val Glu Asp Ala Gly Gly Glu Thr Leu Gly Arg Leu
Leu Val Val Tyr Pro Trp Thr Gln Arg Phe Phe Asp Ser Phe Gly Asn
                            40
Leu Ser Ser Ala Ser Ala Ile Met Gly Asn Pro Lys Val Lys Ala His
Gly Lys Lys Val Leu Thr Ser Leu Gly Asp Ala Ile Lys His Leu Asp
                                        75
Asp Leu Lys Gly Thr Phe Ala Gln Leu Ser Glu Leu His Cys Asp Lys
Leu His Val Asp Pro Glu Asn Phe Lys Leu Leu Gly Xaa Val Leu Val
                                105
Thr Val Leu Ala Ile His Phe Gly Lys Glu Phe Thr Pro Glu Val Gln
                            120
Ala Ser Trp Gln Lys Met Val Thr Ala Val Ala Ser Ala Leu Ser Ser
                        135
Arg Tyr His
145
<210> 8070
```

<211> 402

<212> PRT

<213> Homo sapiens

<400> 8070

Met Ala Gly Ser Arg Leu Glu Thr Val Gly Ser Ile Phe Ser Arg Thr Arg Asp Leu Val Arg Ala Gly Val Leu Lys Glu Lys Pro Leu Trp Phe 25 Asp Val Tyr Asp Ala Phe Pro Pro Leu Arg Glu Pro Val Phe Gln Arg 40 Pro Arg Val Arg Tyr Gly Lys Ala Lys Ala Pro Ile Gln Asp Ile Trp Tyr His Glu Asp Arg Ile Arg Ala Lys Phe Tyr Ser Val Tyr Gly Ser Gly Gln Arg Ala Phe Asp Leu Phe Asn Pro Asn Phe Lys Ser Thr Cys Gln Arg Phe Val Glu Lys Tyr Thr Glu Leu Gln Lys Leu Gly Glu Thr 105 Asp Glu Glu Lys Leu Phe Val Glu Thr Gly Lys Ala Leu Leu Ala Glu 115 120 Gly Val Xaa Leu Arg Arg

<210> 8071

130

<211> 354

<212> PRT

<213> Homo sapiens



<400> 8071

```
Asp Ala Lys Glu Ser Ser Thr Val Phe Glu Leu Lys Arg Ile Val Glu
Gly Ile Leu Lys Arg Pro Pro Asp Glu Gln Arg Leu Tyr Lys Asp Asp
Gln Leu Leu Asp Asp Gly Lys Thr Leu Gly Glu Cys Gly Phe Thr Ser
                         55
Gln Thr Ala Arg Pro Gln Ala Pro Ala Thr Val Gly Leu Ala Phe Arg
Ala Asp Asp Thr Phe Glu Ala Leu Cys Ile Glu Pro Phe Ser Ser Pro
                                     90
Pro Glu Leu Pro Asp Val Met Lys Pro Gln Asp Ser Gly Ser Ser Ala
                                 105
Asn Glu Gln Ala Val Gln
        115
<210> 8072
<211> 354
<212> PRT
<213> Homo sapiens
<400> 8072
Met Asp Val Phe Leu Met Ile Arg Arg His Lys Thr Thr Ile Phe Thr
Asp Ala Lys Glu Ser Ser Thr Val Phe Glu Leu Lys Arg Ile Val Glu
Gly Ile Leu Lys Arg Pro Pro Asp Glu Gln Arg Leu Tyr Lys Asp Asp
Gln Leu Leu Asp Asp Gly Lys Thr Leu Gly Glu Cys Gly Phe Thr Ser
                        55
Gln Thr Ala Arg Pro Gln Ala Pro Ala Thr Val Gly Leu Ala Phe Arg
Ala Asp Asp Thr Phe Glu Ala Leu Cys Ile Glu Pro Phe Ser Ser Pro
                                    90
Pro Glu Leu Pro Asp Val Met Lys Pro Gln Asp Ser Gly Ser Ser Ala
            100
Asn Glu Gln Ala Val Gln
        115
<210> 8073
<211> 330
<212> PRT
<213> Homo sapiens
<400> 8073
Met Asp Ser Thr Leu Thr Ala Ser Glu Ile Arg Gln Arg Phe Ile Asp
Phe Phe Lys Arg Asn Glu His Thr Tyr Val His Ser Ser Ala Thr Ile
                                25
Pro Leu Asp Asp Pro Thr Leu Leu Phe Ala Asn Ala Gly Met Asn Gln
Phe Lys Pro Ile Phe Leu Asn Thr Ile Asp Pro Ser His Pro Met Ala
```

Met Asp Val Phe Leu Met Ile Arg Arg His Lys Thr Thr Ile Phe Thr

```
50
                         55
Lys Leu Ser Arg Ala Ala Asn Thr Gln Lys Cys Ile Arg Ala Gly Gly
Lys His Asn Asp Leu Asp Asp Val Gly Lys Asp Val Tyr His His Thr
                                     90
Phe Phe Glu Met Leu Gly Ser Leu Val Phe Trp Arg Leu Leu
            100
                                 105
<210> 8074
<211> 435
<212> PRT
<213> Homo sapiens
<400> 8074
Met Gln Ala Phe Leu Asn Val Leu Asp Xaa Cys Pro Lys Leu Glu Val
Asp Ile Pro Leu Val Lys Ser Tyr Leu Ala Gln Phe Ala Ala Arg Ala
                                25
Ile Ile Ser Glu Leu Val Ser Ile Ser Glu Leu Ala Gln Pro Leu Glu
Ser Gly Thr His Phe Pro Leu Phe Leu Leu Cys Leu Gln Gln Leu Ala
Lys Leu Gln Asp Arg Glu Trp Leu Thr Glu Leu Phe Gln Gln Ser Lys
                                         75
Val Asn Met Gln Lys Met Leu Pro Glu Ile Asp Gln Asn Lys Asp Arg
                                    90
Met Leu Glu Ile Leu Glu Gly Lys Gly Leu Ser Phe Leu Phe Pro Xaa
            100
                                105
Leu Lys Leu Glu Lys Glu Leu Leu Lys Gln Ile Lys Leu Asp Pro Ser
                            120
Pro Gln Thr Ile Tyr Lys Trp Ile Lys Asp Asn Ile Ser Pro Lys Leu
                        135
Met
145
<210> 8075
<211> 348
<212> PRT
<213> Homo sapiens
Met Gly Tyr Ala Ala Lys Ala Met Lys Ala Ala His Asp Asn Met Asp
Ile Asp Lys Val Asp Glu Leu Met Gln Asp Ile Ala Asp Gln Xaa Glu
                                25
Leu Ala Glu Glu Ile Ser Thr Ala Ile Ser Lys Pro Val Gly Phe Gly
Glu Glu Phe Asp Glu Asp Glu Leu Met Ala Glu Leu Glu Glu Leu Glu
Gln Glu Glu Leu Asp Lys Asn Leu Leu Glu Ile Ser Gly Pro Glu Thr
                    70
Val Pro Leu Pro Asn Val Pro Ser Ile Ala Leu Pro Ser Lys Pro Ala
                                    90
```

Lys Lys Lys Glu Glu Glu Asp Asp Met Lys Glu Leu Glu Asn Trp

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100
                                 105
                                                      110
Ala Gly Ser Met
        115
<210> 8076
<211> 312
<212> PRT
<213> Homo sapiens
<400> 8076
Met Asn Ser Glu Leu Asp Tyr Tyr Xaa Lys Phe Xaa Glu Val His Gly
Ile Leu Met Tyr Lys Asp Phe Val Lys Tyr Trp Asp Asn Val Glu Ala
Phe Gln Ala Arg Pro Asp Asp Leu Val Ile Ala Thr Tyr Pro Lys Ser
                             40
Gly Thr Thr Trp Val Ser Glu Ile Val Tyr Met Ile Tyr Lys Glu Gly
                         55
Asp Val Glu Lys Cys Lys Glu Asp Val Ile Phe Asn Arg Ile Pro Phe
                     70
Leu Glu Cys Arg Lys Glu Asn Leu Met Asn Gly Asn Val Gln Val Asp
                85
Phe Lys Asn Tyr Leu His Ile Phe
            100
<210> 8077
<211> 336
<212> PRT
<213> Homo sapiens
<400> 8077
Met Gly Thr Arg Asp Asp Glu Tyr Asp Tyr Leu Phe Lys Val Val Leu
                                     10
Ile Gly Asp Ser Gly Val Gly Lys Ser Asn Leu Leu Ser Arg Phe Thr
                                 25
Arg Asn Glu Phe Asn Leu Glu Ser Lys Ser Thr Ile Gly Val Glu Phe
                             40
Ala Thr Arg Ser Ile Gln Val Asp Gly Lys Thr Ile Lys Ala Gln Ile
Trp Asp Thr Ala Gly Gln Glu Arg Tyr Arg Ala Ile Thr Ser Ala Tyr
                    70
                                         75
Tyr Arg Gly Ala Val Gly Ala Leu Leu Val Tyr Asp Ile Ala Lys His
                                    90
Leu Thr Tyr Glu Asn Val Glu Arg Ser Glu Arg Thr Glu Arg Ser Cys
            100
<210> 8078
<211> 342
<212> PRT
<213> Homo sapiens
<400> 8078
Met Gly Thr Pro Gln Lys Asp Val Ile Ile Lys Ser Asp Ala Pro Asp
```





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Thr Leu Leu Clu Lys His Ala Asp Tyr Ile Ala Ser Tyr Gly Ser
Lys Lys Asp Asp Tyr Glu Tyr Cys Met Ser Glu Tyr Leu Arg Met Ser
                            40
Gly Ile Tyr Trp Gly Leu Thr Val Met Asp Leu Met Gly Xaa Leu His
                        55
Arg Met Asn Arg Glu Glu Ile Leu Ala Phe Ile Xaa Ser Cys Gln His
                    70
                                        75
Glu Cys Gly Gly Ile Ser Ala Ser Ile Gly His Asp Pro Xaa Leu Leu
                                    90
Tyr Thr Leu Ser Ala Val Gln Ile Leu Thr Leu Tyr Asp Ser Xaa Xaa
                                105
Cys Tyr
<210> 8079
<211> 423
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<212> PRT <213> Homo sapiens

<400> 8079

10 Ala Pro Gly Ser Thr Asn Asp Arg Leu Phe Leu Val Lys Gly Gly Ile 25 Phe Leu Gly Thr Val Ala Ala Gly Met Leu Ala Gly Phe Ile Thr 40 Thr Leu Ser Leu Ala Lys Lys Lys Ser Pro Glu Trp Phe Asn Lys Gly Ser Met Ala Thr Ala Ala Leu Pro Glu Ser Gly Ser Ser Leu Ala Leu Arg Ala Leu Gly Trp Gly Ser Leu Tyr Ala Trp Cys Gly Val Xaa Val Ile Ser Phe Ala Val Trp Lys Ala Leu Gly Val His Ser Met Asn Asp 105 Phe Arg Ser Lys Met Gln Ser Ile Phe Pro Thr Ile Pro Lys Xaa Ser 120 Glu Ser Ala Val Glu Trp Glu Glu Thr Leu Lys Ser Lys 130 135

Met Glu Thr Ala Gly Ala Ala Thr Gly Gln Pro Ala Ser Gly Leu Glu

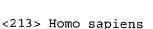
<210> 8080 <211> 387 <212> PRT <213> Homo sapiens

<400> 8080 Met Glu Arg Ser Glu Tyr Leu Gly Arg Gly Ala Arg Cys Ile Ala Xaa Gln Ala Glu Asp Val Arg Val Glu Gly Ser Phe Pro Val Thr Met Leu Pro Gly Asp Gly Val Gly Pro Glu Leu Met His Ala Val Lys Glu Val Phe Lys Ala Ala Ala Val Pro Val Glu Phe Gln Glu His His Leu Ser Glu Val Gln Asn Met Ala Ser Glu Glu Lys Leu Glu Gln Val Leu Ser





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65
                    70
Ser Met Lys Glu Asn Lys Val Ala Ile Ile Gly Lys Ile His Thr Pro
Met Glu Tyr Xaa Gly Ala Xaa Xaa Pro Met Ile Cys Gly Xaa Gly
                                105
Val Ser Trp Thr Tyr Leu Pro Arg Xaa His Val Ser His Phe Leu Gly
Ile
<210> 8081
<211> 318
<212> PRT
<213> Homo sapiens
<400> 8081
Met Met Ala Thr Gly Thr Pro Glu Ser Gln Ala Arg Phe Gly Gln Ser
                                     10
Val Lys Gly Leu Leu Thr Glu Lys Val Thr Thr Cys Gly Thr Asp Val
Ile Ala Leu Thr Lys Gln Val Leu Lys Gly Ser Arg Ser Ser Glu Leu
Leu Gly Gln Ala Ala Arg Asn Met Val Leu Gln Glu Asp Ala Ile Leu
                        55
His Ser Glu Asp Ser Leu Arg Lys Met Ala Ile Ile Thr Thr His Leu
Gln Tyr Gln Gln Glu Ala Ile Gln Lys Asn Val Glu Gln Ser Ser Asp
                85
Leu Gln Asp Gln Leu Asn His Leu Leu Lys
<210> 8082
<211> 309
<212> PRT
<213> Homo sapiens
<400> 8082
Met Met Gly Ser Lys Met Ala Ser Ala Ser Arg Val Val Gln Val Val
Lys Pro His Thr Pro Leu Ile Arg Phe Pro Asp Arg Arg Asp Asn Pro
Lys Pro Asn Val Ser Glu Ala Leu Arg Ser Ala Gly Leu Pro Ser His
Ser Ser Val Ile Ser Gln His Ser Lys Gly Ser Lys Ser Pro Asp Leu
Leu Met Tyr Gln Gly Pro Pro Asp Thr Ala Glu Ile Ile Lys Thr Leu
                    70
Pro Gln Lys Tyr Arg Arg Lys Leu Val Ser Gln Glu Glu Met Glu Phe
                                    90
Ile Gln Arg Gly Gly Pro Glu
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<210> 8083
<211> 306
<212> PRT
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<210> 8084 <211> 384 <212> PRT <213> Homo sapiens

100

<400> 8084

 Ser Gly
 Asp
 Phe Lys
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 Ala
 Leu
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 Val
 Ser
 Pro
 Ala
 Arg

 Ser Lys
 Ala
 Pro
 Ala
 Ser
 Ser
 Ser
 Ser
 Asn
 Pro
 Glu
 Glu
 Val
 Gln
 Lys

 Ser Lys
 Ala
 Pro
 Ala
 Ser
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 Asn
 Pro
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 Glu
 Val
 Gln
 Lys

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Met Ala Asp Ile Leu Ser Gln Ser Glu Thr Leu Ala Ser Gln Asp Leu

<210> 8085 <211> 333 <212> PRT <213> Homo sapiens

<400> 8085

 Met
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 Arg
 Asp
 Arg
 Lys
 Arg
 Ser
 Ala
 Ser
 Ser
 Ile
 Ser
 Thr

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 Leu
 Leu
 Asp
 Thr
 Ser
 Pro
 Thr
 Leu
 Glu
 Val
 Ser
 Leu
 Ala

 Asp
 Gln
 Gln
 Asp
 Ser
 Gln
 Xaa
 Ser
 Leu
 Phe
 Lys
 Arg
 Ser
 Pro
 Asp

 Thr
 Gly
 His
 Pro
 Ala
 Pro
 Ala
 Ala
 Ser
 Ala
 Arg
 Arg
 His
 Gln

<210> 8086 <211> 324

<212> PRT

<213> Homo sapiens

<400> 8086

Met Ile Leu Gln Arg Leu Phe Arg Phe Ser Ser Val Ile Arg Ser Ala

1 5 10 15

Val Ser Val His Leu Arg Arg Asn Ile Gly Val Thr Ala Val Ala Phe 20 25 30

Asn Lys Glu Leu Asp Pro Ile Gln Lys Leu Phe Val Asp Lys Ile Arg 35 40 45

Glu Tyr Lys Ser Lys Arg Gln Thr Ser Gly Gly Pro Val Asp Ala Ser 50 55 60

Ser Glu Tyr Gln Gln Glu Leu Glu Arg Glu Leu Phe Lys Leu Lys Gln 65 70 75 80

Met Phe Gly Asn Ala Asp Met Asn Thr Phe Pro Thr Phe Lys Phe Glu 85 90 95

Asp Pro Lys Phe Glu Val Ile Glu Lys Pro Gln Ala 100 105

<210> 8087

<211> 354

<212> PRT

<213> Homo sapiens

<400> 8087

Met Ser Leu Leu Asn Lys Pro Lys Ser Glu Met Thr Pro Glu Glu Leu

1 10 15

Gln Lys Arg Glu Glu Glu Phe Asn Thr Gly Pro Leu Ser Val Leu 20 25 30

Thr Gln Ser Val Lys Asn Asn Thr Gln Val Leu Ile Asn Cys Arg Asn 35 40 45

Asn Lys Lys Leu Leu Gly Arg Val Lys Ala Phe Asp Arg His Cys Asn 50 55 60

Met Val Leu Glu Asn Val Lys Glu Met Trp Thr Glu Val Pro Lys Ser 65 70 75 80

Gly Lys Gly Lys Lys Ser Lys Pro Val Asn Lys Asp Arg Tyr Ile
85 90 95

Ser Lys Met Phe Leu Arg Gly Asp Ser Val Ile Val Val Leu Arg Asn 100 105 110

Pro Leu Ile Ala Gly Lys

115

<210> 8088

<211> 354

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<212> PRT
<213> Homo sapiens
<400> 8088
Met Trp Leu Glu Ile Leu Leu Thr Ser Val Leu Gly Phe Ala Ile Tyr
Trp Phe Ile Ser Arg Asp Lys Glu Glu Thr Leu Pro Leu Glu Asp Gly
                                 25
Trp Trp Gly Pro Gly Thr Arg Ser Ala Ala Arg Glu Asp Asp Ser Ile
Arg Pro Phe Lys Val Glu Thr Ser Asp Glu Glu Ile His Asp Leu His
Gln Arg Ile Asp Lys Phe Arg Phe Thr Pro Pro Leu Glu Asp Ser Cys
                                         75
Phe His Tyr Gly Phe Asn Ser Asn Tyr Leu Lys Lys Val Ile Ser Tyr
                                     90
Trp Arg Asn Glu Phe Asp Trp Lys Lys Gln Val Glu Asp Ser Gln Gln
            100
Ile Pro Ser Leu Gln Asp
        115
<210> 8089
<211> 357
<212> PRT
<213> Homo sapiens
<400> 8089
Met Ala Leu Asn Lys Asn His Ser Glu Gly Gly Gly Val Ile Val Asn
Asn Thr Glu Ser Ile Leu Met Ser Tyr Asp His Val Glu Leu Thr Phe
                                 25
Asn Asp Met Lys Asn Val Pro Glu Ala Phe Lys Gly Thr Lys Lys Gly
                            40
Thr Val Tyr Leu Thr Pro Tyr Arg Val Ile Phe Leu Ser Lys Gly Lys
                        55
                                             60
Asp Ala Met Gln Ser Phe Met Met Pro Phe Tyr Leu Met Lys Asp Cys
Glu Ile Lys Gln Pro Val Phe Gly Ala Asn Tyr Ile Lys Gly Thr Val
Lys Ala Glu Ala Gly Gly Gly Trp Glu Gly Ser Ala Ser Tyr Lys Leu
            100
                                105
Thr Phe Thr Ala Gly Arg His
        115
<210> 8090
<211> 327
<212> PRT
<213> Homo sapiens
<400> 8090
Met Thr Val His Asn Leu Tyr Leu Phe Asp Arg Asn Gly Val Cys Leu
His Tyr Ser Glu Trp His Arg Lys Lys Gln Ala Gly Ile Pro Lys Glu
            20
                                25
```

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Glu Glu Tyr Lys Leu Met Tyr Gly Met Leu Phe Ser Ile Arg Ser Phe
Val Ser Lys Met Ser Pro Leu Asp Met Lys Asp Gly Phe Leu Ala Phe
Gln Thr Ser Arg Tyr Lys Leu His Tyr Tyr Glu Thr Pro Thr Gly Ile
Lys Val Val Met Asn Thr Asp Leu Gly Val Gly Pro Ile Arg Asp Val
                85
                                    90
Leu His His Ile Tyr Ser Ala Leu Leu Trp Ser Trp Trp
                                105
<210> 8091
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<211> 366 <212> PRT <213> Homo sapiens

<400> 8091

His Tyr Ser Glu Trp His Arg Lys Lys Gln Ala Gly Ile Pro Lys Glu Glu Glu Tyr Lys Leu Met Tyr Gly Met Leu Phe Ser Ile Arg Ser Phe Val Ser Lys Met Ser Pro Leu Asp Met Lys Asp Gly Phe Leu Ala Phe Gln Thr Ser Arg Tyr Lys Leu His Tyr Tyr Glu Thr Pro Thr Gly Ile 70 Lys Val Val Met Asn Thr Xaa Leu Gly Val Gly Pro Ser Glu Met Cys Cys Xaa Thr Ser Thr Val Arg Cys Cys Gly Ala Gly Gly Glu Glu Ser 100 105 Pro Val Pro Ala Gly Pro Asn Cys Ala Lys

Met Thr Val His Asn Leu Tyr Leu Phe Asp Arg Asn Gly Val Cys Leu

<210> 8092 <211> 357 <212> PRT <213> Homo sapiens

<400> 8092

Met Ser Ala His Leu Gln Trp Met Val Val Arg Asn Cys Ser Ser Phe 10 Leu Ile Lys Arg Asn Lys Gln Thr Tyr Ser Thr Glu Pro Asn Asn Leu 25 Lys Ala Arg Asn Ser Phe Arg Tyr Asn Gly Leu Ile His Arg Lys Thr 40 Val Gly Val Glu Pro Ala Ala Asp Gly Lys Gly Val Val Val Ile Lys Arg Arg Ser Gly Gln Arg Lys Pro Ala Thr Ser Tyr Val Arg Thr Thr Ile Asn Lys Asn Ala Arg Ala Thr Leu Ser Ser Ile Arg His Met 90 Ile Arg Lys Asn Lys Tyr Arg Pro Asp Leu Arg Met Leu Xaa Gly Lys 100 105

Gly Leu Xaa Xaa Ser Arg Leu 115 <210> 8093 <211> 432 <212> PRT <213> Homo sapiens <400> 8093 Met Ser Ala His Leu Gln Trp Met Val Val Arg Asn Cys Ser Ser Phe Leu Ile Lys Arg Asn Lys Gln Thr Tyr Ser Thr Glu Pro Asn Asn Leu 25 Lys Ala Arg Asn Ser Phe Arg Tyr Asn Gly Leu Ile His Arg Lys Thr Val Gly Val Glu Pro Ala Ala Asp Gly Lys Gly Val Val Val Ile 55 Lys Arg Arg Ser Gly Gln Arg Lys Pro Ala Thr Ser Tyr Val Arg Thr 70 75 Thr Ile Asn Lys Asn Ala Arg Ala Thr Leu Ser Ser Ile Arg His Met Ile Arg Lys Asn Lys Tyr Arg Pro Asp Leu Arg Met Ala Ile Arg 105 Arg Pro Ala Pro Ser Cys Ala Ala Glu Ala Cys Asp Gly Glu Glu 120 Ala Asp Pro Pro His Gln Glu Leu Leu Ser Pro Leu Pro Pro Glu Gln 130 135 <210> 8094 <211> 336 <212> PRT <213> Homo sapiens <400> 8094 Met Leu Trp Ala Asn Ser Asn Ser Asn Gly Leu Ile His Arg Lys Thr 10 Val Gly Val Glu Pro Xaa Ala Asp Gly Lys Gly Val Val Val Xaa 25 Lys Arg Arg Ser Gly Gln Ala Glu Ala Gly Xaa Leu Leu Cys Ala Asp His His Gln Gln Glu Cys Ser Arg Xaa Ala Gln Gln His Gln Thr Xaa 55 Ile Arg Lys Asn Lys Tyr Arg Pro Asp Leu Arg Met Ala Ala Ile Arg 70 Arg Pro Ala Pro Ser Cys Ala Ala Glu Ala Cys Asp Gly Glu Glu 90 Ala Asp Pro Pro His Gln Glu Leu Leu Ser Pro Leu Pro Pro Glu Gln 100 105 <210> 8095 <211> 360 <212> PRT <213> Homo sapiens

```
<400> 8095
Met Leu Lys Lys Cys Leu Lys Lys Tyr Trp Gly Glu Gly Asn Ser Ser
Gln Gln Asp Cys Gly His Tyr Trp Ser Tyr Tyr Phe Asp Val Pro Trp
                                 25
Lys Ala Gln Lys Ser Ser Lys Glu Asp Ile Ser Tyr Phe Asp Leu His
                            40
Xaa Phe Leu Lys Glu Lys Trp Ser Leu Pro Pro Val Gln Phe Thr Arg
Ala Phe Ser Leu Pro Cys Pro Pro Phe Leu Val Ala Val Ala Arg Lys
Asp Ala Glu Ala Val Trp Phe Thr Lys Cys Leu Asn Leu Ala Val Asn
                                    90
Asp Asn Cys Gln Thr His Val Glu Gly Xaa Phe Leu Leu Ile His Lys
                                105
Lys Glu Asp Ser Leu Pro Thr Ser
<210> 8096
<211> 441
<212> PRT
<213> Homo sapiens
<400> 8096
Met Asn Arg Ser Arg Gln Val Thr Cys Val Ala Trp Val Arg Cys Gly
                                    10
Val Ala Lys Glu Thr Pro Asp Lys Val Glu Leu Ser Lys Glu Glu Val
Lys Arg Leu Ile Ala Glu Ala Lys Glu Lys Leu Gln Glu Glu Gly Gly
Gly Ser Asp Glu Glu Glu Thr Gly Ser Pro Ser Glu Asp Gly Met Gln
Ser Ala Arg Thr Gln Ala Arg Pro Arg Glu Pro Leu Glu Asp Gly Asp
Pro Glu Asp Asp Arg Thr Leu Asp Asp Glu Leu Ala Glu Tyr Asp
                85
                                    90
Leu Asp Lys Tyr Asp Glu Glu Gly Asp Pro Asp Ala Glu Thr Leu Gly
Glu Ser Leu Leu Gly Leu Thr Val Tyr Gly Ser Asn Asp Gln Asp Pro
                            120
Tyr Val Thr Leu Lys Asp Thr Ser Met Thr Phe Phe Ser Ser His Leu
                        135
Gly Thr Ile
145
<210> 8097
<211> 348
<212> PRT
<213> Homo sapiens
<400> 8097
Met Lys His Tyr Glu Val Glu Ile Leu Asp Ala Lys Thr Arg Glu Lys
```

Leu Cys Phe Leu Asp Lys Val Glu Pro His Ala Thr Ile Ala Glu Ile

20 25 Lys Asn Leu Phe Thr Lys Thr His Pro Gln Trp Tyr Pro Ala Arg Gln Ser Leu Arg Leu Asp Pro Lys Gly Lys Ser Leu Lys Asp Glu Asp Val 55 Leu Gln Lys Leu Pro Val Gly Thr Thr Ala Thr Leu Tyr Phe Arg Asp 75 Leu Gly Ala Gln Ile Ser Trp Val Thr Val Phe Leu Thr Glu Tyr Ala 85 Gly Pro Phe Ser Ser Thr Cys Ser Ser Thr Ser Glu Cys Pro Ser Ser 105 Met Ala Gln Ile 115 <210> 8098 <211> 393 <212> PRT <213> Homo sapiens <400> 8098 Met Ile Leu Gln Glu Thr Lys Xaa Ala Cys Xaa Ile Pro Ala Ile Pro His Cys Ser Arg Val Glu Ile Leu Asp Ala Lys Thr Arg Glu Xaa Leu 25 Cys Phe Leu Asp Lys Val Glu Pro His Ala Thr Ile Ala Glu Ile Lys 40 Asn Leu Phe Thr Lys Thr His Pro Gln Trp Tyr Pro Ala Arg Gln Ser Leu Arg Leu Asp Pro Lys Gly Lys Ser Leu Lys Asp Glu Asp Val Leu Gln Lys Leu Pro Val Gly Thr Thr Ala Thr Leu Tyr Phe Arg Asp Leu 90 Gly Ala Gln Ile Ser Trp Val Thr Val Phe Leu Thr Glu Tyr Ala Gly 105 Pro Phe Ser Ser Thr Cys Ser Ser Thr Ser Glu Cys Pro Ser Ser Met 115 120 Ala Gln Ile 130 <210> 8099 <211> 324 <212> PRT <213> Homo sapiens <400> 8099 Met Val Asn Leu Gly Leu Ser Arg Val Asp Asp Ala Val Ala Ala Lys His Pro Gly Leu Gly Glu Tyr Ala Ala Cys Gln Ser His Ala Phe Met Lys Gly Val Phe Thr Phe Val Thr Gly Thr Gly Met Ala Phe Gly Leu Gln Met Phe Ile Gln Arg Lys Phe Pro Tyr Pro Leu Gln Trp Ser Leu Leu Val Ala Val Val Ala Gly Xaa Val Val Ser Tyr Gly Val Thr Arg

<213> Homo sapiens

65 70 75 Val Glu Ser Glu Lys Cys Asn Asn Leu Trp Leu Phe Leu Glu Thr Gly 90 Gln Leu Pro Lys Asp Arg Ser Thr Asp Gln Arg Ser 100 <210> 8100 <211> 303 <212> PRT <213> Homo sapiens <400> 8100 Met Val Tyr Leu Val Asn Leu Ser Glu Lys Asp Tyr Ile Arg Lys Lys Asn Lys Cys Gly Ala Leu Glu Leu Lys Leu Gln Glu Leu Ser Ala Glu Glu Arg Gln Lys Tyr Leu Glu Ala Asn Met Thr Gln Ser Ala Leu Pro 40 Lys Ile Ile Lys Ala Gly Phe Ala Ala Leu Gln Leu Glu Tyr Phe Phe Thr Ala Xaa Pro Asp Glu Val Arg Ala Trp Thr Ile Arg Lys Gly Thr 75 Lys Ala Pro Gln Ala Ala Gly Lys Ile His Thr Asp Phe Glu Lys Gly Phe Ile Trp Leu Lys 100 <210> 8101 <211> 372 <212> PRT <213> Homo sapiens <400> 8101 Met Ser Tyr Ile Pro Gly Gln Pro Val Thr Ala Val Val Gln Arg Val 10 Glu Ile His Lys Leu Arg Gln Gly Glu Asn Leu Ile Leu Gly Phe Ser Ile Gly Gly Ile Asp Gln Asp Pro Ser Gln Asn Pro Phe Ser Glu Asp Lys Thr Asp Lys Gly Ile Tyr Val Thr Arg Val Ser Glu Gly Gly Pro Ala Glu Ile Ala Gly Leu Gln Ile Gly Asp Lys Ile Met Gln Val 70 75 Asn Gly Trp Asp Met Thr Met Val Thr His Asp Gln Ala Arg Lys Arg 90 Leu Thr Lys Arg Ser Glu Glu Val Val Arg Leu Leu Val Thr Arg Gln 105 Ser Leu Gln Lys Ala Val Gln Gln Ser Met Leu Ser <210> 8102 <211> 312 <212> PRT

 <400> 8102

 Met Glu Asp His Gln His Val Pro Ile Asp Ile Gln Thr Ser Lys Leu

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 15

 Leu Asp Trp Leu Val Asp Arg Arg His Cys Ser Leu Lys Trp Gln Ser
 20
 25
 25
 30
 20

 Leu Val Leu Thr Ile Arg Xaa Glu Asp Gln Cys Cys His 35
 40
 45
 45
 45

 Ala Arg Glu Arg Arg Arg Asp Arg Pro Ala Ala Val Trp Val Leu His Ser
 50
 55
 60

 Leu Leu Ser Leu Pro Lys Asn Pro Gly Pro Ser Gln Arg His Arg Gly
 65
 70
 75
 80

 Leu His Glu Glu Tyr Phe Trp Pro Ile Leu Phe Thr Ala Asp Glu Gly
 90
 95

 Leu Ala Gly Asp Tyr Ser Ser Val
 100
 100
 100
 100

<210> 8103 <211> 336 <212> PRT <213> Homo sapiens

<400> 8103

105

110

<210> 8104 <211> 372 <212> PRT <213> Homo sapiens

100

<400> 8104

 Met
 Ala
 Met
 Ala
 Glu
 Glu
 Arg
 Thr
 Glu
 Cys
 Ala
 Glu
 Pro
 Pro
 Arg

 1
 5
 10
 10
 15
 15

 Asp
 Glu
 Pro
 Ala
 Asp
 Glu
 Ala
 Leu
 Lys
 Arg
 Ala
 Glu
 Glu
 Leu
 Lys

 Thr
 Glu
 Ala
 Asp
 Tyr
 Phe
 Lys
 Ala
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 Asp
 Tyr
 Glu
 Asn
 Ala
 Ile

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 Tyr
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 Asn
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 Ser
 Asn
 Ala
 Ile
 Tyr
 Fer
 Asn
 Ala

Ala Leu Gly Asp Ala Thr Arg Ala Ile Glu Leu Asp Lys Lys Tyr Ile
85

Lys Gly Tyr Tyr Arg Arg Ala Ala Ser Asn Met Ala Leu Gly Ser Ser
100

Gly Pro Arg Cys Glu Thr Thr Arg Arg Arg Trp Ser Arg
115

<210> 8105

<211> 393

<212> PRT

<213> Homo sapiens

<400> 8105

Met Ser Asp Ile Glu Glu Val Val Glu Glu Tyr Glu Glu Glu Glu Gln
1

Glu Gly Lys Arg Lys Arg Val Xaa Ser Phe Gly Ser Lys Thr Ala Trp
20

Phe Glu Thr Asp Pro Pro Leu Leu Ser Ser Leu Ala Ala Trp Thr Ser
35

Glu Gln Lys Gln Leu Leu Lys Ser Arg Arg Arg Gln Arg Lys Arg Met
50

Leu Lys Gln Arg Leu Arg Pro Arg Arg Pro Gly Gln Lys Lys Met Lys

65 70 75 80

Lys Lys Arg Lys Gln Arg Arg Leu Lys Met Ala Gln Trp Arg Ser Pro
85 90 95

Asn Gln Ser Pro Gly Arg Ser Cys Pro Thr Xaa Cys Leu Pro Arg Ser
100 105 110

Gln Met Glu Arg Glu Trp Thr Xaa Xaa Thr Ser Thr Gly Ser Ala Trp
115 120 125

Arg Arg Xaa 130

<210> 8106 <211> 312 <212> PRT

<213> Homo sapiens

<400> 8106

 Met
 Asn
 Thr
 Phe
 Gln
 Asp
 Gln
 Ser
 Gly
 Ser
 Ser
 Ser
 Asp
 Glu
 Pro

 Leu
 Leu
 Arg
 Cys
 Ser
 Asp
 Ala
 Arg
 Arg
 Asp
 Leu
 Glu
 Leu
 Ala
 Ile
 Gly
 Ile
 Ile

<210> 8107

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<211> 390
<212> PRT
<213> Homo sapiens
<400> 8107
Met Ala Ala Asp Gly Asp Asp Ser Leu Tyr Pro Ile Ala Val Leu
Ile Asp Glu Leu Arg Asn Glu Asp Val Gln Leu Arg Leu Asn Ser Ile
                                25
Lys Lys Leu Ser Thr Ile Ala Leu Ala Leu Gly Val Glu Arg Thr Arg
Ser Glu Leu Leu Pro Phe Leu Thr Asp Thr Ile Tyr Asp Glu Asp Glu
                        55
Val Leu Leu Ala Leu Ala Glu Gln Leu Gly Thr Phe Thr Thr Leu Val
                                         75
Gly Gly Pro Glu Tyr Val His Cys Leu Leu Pro Pro Leu Glu Ser Leu
                                     90
Ala Thr Val Glu Glu Thr Val Val Arg Asp Lys Ala Val Glu Ser Leu
                                105
Arg Ala Ile Ser His Glu His Ser Pro Ser Asp Leu Glu Ala His Phe
        115
                            120
Val Arg
    130
<210> 8108
<211> 306
<212> PRT
<213> Homo sapiens
<400> 8108
Met Gly Ala Leu Val Ile Arg Gly Ile Arg Asn Phe Asn Leu Glu Asn
Arg Ala Glu Arg Glu Ile Ser Lys Met Lys Pro Ser Val Ala Pro Arg
                                25
His Pro Ser Thr Asn Ser Leu Leu Arg Glu Gln Ile Ser Leu Tyr Pro
                            40
Glu Val Lys Gly Glu Ile Ala Arg Lys Asp Glu Lys Leu Leu Ser Phe
Leu Lys Asp Val Tyr Val Asp Ser Lys Asp Pro Val Ser Ser Leu Gln
                                        75
Val Lys Ala Ala Glu Xaa Cys Gln Glu Pro Lys Asn Ser Asp Cys Arg
Lys Thr Ile Ile Leu Ile
            100
<210> 8109
<211> 375
<212> PRT
<213> Homo sapiens
<400> 8109
Met Ala Ala Ser Gly Ala Asp Ala Gly Pro Gly Thr Ile Leu Gly Val
Thr Lys Gly Ser Ile Thr Ser Ser Val Leu Leu Ala Gly Gly Arg Thr
```

Gly Ser Ala Gly Leu Ser Arg Gly His Arg Ala Leu His Thr His Arg Asp His Pro His Thr Ala Ala Tyr Leu Gln Glu Leu Gly Arg Met Arg Lys Val Val Leu Glu Ala Pro Asp Glu Thr Thr Leu Lys Glu Leu Ala Glu Thr Leu Gln Gln Lys Asn Ile Asp His Met Leu Trp Leu Glu Gln 90 Pro Glu Asn Ile Ala Thr Cys Ile Ala Leu Arg Pro Tyr Pro Lys Glu 105 Glu Val Gly Gln Tyr Leu Lys Lys Phe Arg Leu Phe Lys 120 <210> 8110 <211> 318 <212> PRT <213> Homo sapiens <400> 8110 Met Asp Gly Arq Val Gln Leu Ile Lys Ala Leu Leu Ala Leu Pro Ile Arg Pro Ala Thr Arg Arg Trp Arg Asn Pro Ile Pro Phe Pro Glu Thr

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 Pro
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 Thr
 Arg
 Arg
 Trp
 Arg
 Asn
 Pro
 Ile
 Pro
 Phe
 Pro
 Glu
 Thr
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 Thr
 Asp
 Arg
 Leu
 Pro
 Glu
 Phe
 Ile
 Val
 Glu
 Thr
 Gly
 Asp
 Asp
 Asp
 Asp
 Thr
 Phe
 Ser
 Ser
 Asp
 Ala
 Leu
 Lys
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<210> 8111 <211> 324 <212> PRT <213> Homo sapiens

<400> 8111

 Met
 Arg
 Glu
 Thr
 Ala
 Xaa
 Arg
 Gln
 Ser
 Met
 Lys
 Gly
 Asp
 Trp
 His
 Gln

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<210> 8112
<211> 384
<212> PRT
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<213> Homo sapiens

<400> 8112

Met Gly Arg Ser Arg Ser Arg Ser Pro Arg Arg Glu Arg Arg Ser Arg Ser Thr Ser Arg Glu Arg Glu Arg Arg Arg Glu Arg Ser Arg Ser Arg Glu Arg Asp Arg Arg Ser Arg Ser Arg Ser Pro His Arg Arg Arg Ser Arg Ser Pro Arg Arg His Arg Ser Thr Ser Pro Ser Pro Ser Arg Leu Lys Glu Arg Arg Asp Glu Glu Lys Lys Glu Thr Lys Glu 70 Thr Lys Ser Lys Glu Arg Xaa Ile Thr Glu Glu Asp Leu Glu Gly Lys Thr Glu Xaa Glu Ile Xaa Met Met Lys Leu Xaa Gly Ile Cys Ser Phe

105 Xaa Ser Thr Lys Gly Lys Lys Val Asp Gly Ser Val Asn Ala Tyr Ala 120

<210> 8113 <211> 558 <212> PRT

<213> Homo sapiens

<400> 8113

Met Pro Arg Phe Pro Pro Thr Leu Ile Phe Ser Gly Ser Gln Val Arg Phe Ser Ala Pro Pro Asn Ser Leu Val Ser Phe Phe Asp Ala Ser Leu 25

Pro Gly Thr Leu Pro Val Leu Asn Arg Xaa Cys Val Glu Ala Ala Val

Met Thr Gly Leu Ala Leu Asn Cys His Ile Asn Lys Lys Ser Leu Phe

Asp Arg Lys His Tyr Phe Tyr Ala Asp Leu Pro Ala Gly Tyr Gln Ile 70

Thr Gln Gln Arg Leu Pro Ile Ala Val Asn Gly Ser Leu Ile Tyr Gly

Val Cys Ala Gly Lys Lys Gln Ser Gln Val Ile Pro Lys Thr Val Arg 105

Ile Lys Gln Ile Gln Leu Glu Gln Asp Ser Gly Lys Ser Leu His Asp 120

Asn Leu Arg Ser Gln Thr Leu Ile Asp Leu Asn Arg Ala Gly Val Gly 135

Leu Leu Glu Val Val Leu Xaa Pro Asp Met Ser Cys Gly Glu Glu Xaa 155 Ala Thr Ala Val Arg Glu Leu Gln Leu Ile Xaa Xaa Ala Leu Gly Asn

170 Gln Pro Xaa Glu His Gly Arg Gly Pro Ser

165

175

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<210> 8114
<211> 318
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<212> PRT

<213> Homo sapiens

<400> 8114

Met Ala Thr Val Thr Ala Thr Thr Lys Val Pro Glu Ile Arg Asp Val
1 5 10 15

Thr Arg Ile Glu Arg Ile Gly Ala His Ser His Ile Arg Gly Leu Gly
20 25 30

Leu Asp Asp Ala Leu Glu Pro Arg Gln Ala Ser Gln Gly Met Val Gly
35 40 45

Gln Leu Ala Ala Arg Arg Ala Ala Gly Val Val Leu Glu Met Ile Arg 50 55 60

Glu Gly Lys Ile Ala Gly Arg Ala Val Leu Ile Ala Gly Gln Pro Gly 65 70 75 80

Thr Gly Lys Thr Ala Ile Ala Met Gly Met Ala Gln Ala Leu Gly Pro 85 90 95

Xaa His Ala Ile His Ser His Arg Arg Gln
100 105

<210> 8115

<211> 318

<212> PRT

<213> Homo sapiens

<400> 8115

Met Ser Thr Asn Asn Met Ser Asp Pro Arg Arg Pro Asn Lys Val Leu 1 5 10 15

Arg Tyr Lys Pro Pro Pro Ser Glu Cys Asn Pro Ala Leu Asp Asp Pro 20 25 30

Thr Pro Asp Tyr Met Asn Leu Leu Gly Met Ile Phe Ser Met Cys Gly 35 40 45

Leu Met Leu Lys Leu Lys Trp Cys Ala Trp Val Ala Val Tyr Cys Ser 50 55 60

Phe Ile Ser Phe Ala Asn Ser Arg Ser Ser Glu Asp Thr Lys Gln Met 70 75 80

Met Ser Ser Phe Met Leu Ser Ile Ser Ala Val Val Met Ser Tyr Leu 85 90 95

Gln Asn Pro Gln Pro Met Thr Pro Pro Trp 100 105

<210> 8116

<211> 366

<212> PRT

<213> Homo sapiens

<400> 8116

Met Ala Ala Pro Val Asp Leu Glu Leu Lys Lys Ala Phe Thr Glu Leu

1 5 10 15

Gln Ala Lys Val Ile Asp Thr Gln Gln Lys Val Lys Leu Ala Asp Ile

20 25 30

<210> 8117 <211> 387 <212> PRT

<213> Homo sapiens

<400> 8117

Gly Asp Ser Val Lys Ala Ser Lys Phe Arg Arg Lys Ala Ser Glu Glu 65 70 75 80

Ile Glu Asp Phe Arg Leu Arg Pro Gln Ser Leu Asn Gly Ser Asp Tyr

Gly Gly Asp Ile Pro Ile Ile Pro Asp Leu Glu Glu Val Gln Xaa Glu
100 105 110

Asp Phe Val Leu Gln Val Ala Ala Pro Ser Gln His Pro Asp Lys Ser 115 120 125

Gly

<210> 8118 <211> 372

<212> PRT <213> Homo sapiens

<400> 8118

 Met
 Gln
 Lys
 Glu
 Ile
 Thr
 Leu
 Pro
 Ser
 Arg
 Leu
 Ile
 Tyr
 Tyr
 Ile
 Asn

 1
 1
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 16

Gly Leu Leu Ser Ser Asp Tyr Val Glu Ile His Tyr Glu Asn Gly Lys 65 70 75 80

Pro Gln Tyr Ser Lys Gly Glu His Cys Tyr Tyr His Gly Ser Ile

```
85
                                     90
Arg Gly Val Lys Asp Ser Lys Gly Gly Ser Val Asn Leu Gln Trp Thr
                                 105
Ser Arg Asp Gly Arg Lys Arg Glu Thr Pro Ser Ile
                             120
<210> 8119
<211> 345
<212> PRT
<213> Homo sapiens
<400> 8119
Met Ser Arg Val Leu Val Pro Cys His Val Lys Xaa Ser Val Ala Leu
                                     10
Gln Val Gly Asp Val Arg Thr Ser Gln Gly Arg Pro Gly Val Leu Val
                                 25
Ile Xaa Xaa Thr Phe Xaa Ser Val Xaa Pro Phe Glu Xaa Gln Glu Ile
Thr Phe Lys Asn Tyr Tyr Thr Ala Phe Leu Ser Ile Arg Val Arg Xaa
Tyr Thr Ser Ala His Thr Pro Ala Lys Trp Val Thr Cys Leu Arg Asp
                    70
Tyr Cys Leu Met Pro Asp Pro His Ser Glu Glu Gly Ala Gln Glu Tyr
                                     90
Val Ser Leu Phe Xaa His Gln Met Leu Xaa Thr Trp Leu Glu Tyr Arg
            100
                                 105
Xaa Tyr Ala
        115
<210> 8120
<211> 345
<212> PRT
<213> Homo sapiens
<400> 8120
Met Glu Phe Pro Phe Asp Val Asp Ala Leu Phe Pro Glu Arg Ile Thr
Val Leu Asp Gln His Leu Arg Pro Pro Ala Arg Arg Pro Gly Thr Thr
Thr Pro Ala Arg Val Asp Leu Gln Gln Gln Ile Met Thr Ile Ile Asp
Glu Leu Gly Lys Ala Ser Ala Lys Ala Gln Asn Leu Ser Ala Pro Ile
Thr Ser Ala Ser Arg Met Gln Ser Asn Arg His Val Val Xaa Ile Leu
                    70
Lys Asp Ser Ser Ala Arg Pro Ala Gly Lys Gly Xaa Ile Ile Gly Phe
                                    90
Xaa Lys Trp Asp Thr Arg Ser Ser Leu Tyr Trp Met Ile Val Xaa Leu
            100
                                105
Ile Met Arg
        115
<210> 8121
<211> 417
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<212> PRT
<213> Homo sapiens
<400> 8121
Met Val Val Tyr Lys Thr Asp Gly Lys Lys Val Tyr Tyr Pro Ala Asp
Pro Pro Tyr Ile Asp Gly Ile Arg Ile Asn Ser Pro His Tyr Leu
                                2.5
Thr Lys Ile Lys Leu Thr Thr Pro Gly Thr His Thr Phe Thr Leu Val
Val Ser Gln Tyr Glu Lys Gln Asn Thr Ile His Tyr Thr Val Arg Val
Tyr Ser Ala Cys Ser Phe Thr Phe Ser Lys Ile Pro Ser Pro Tyr Thr
                    70
Leu Ser Lys Arg Ile Asn Gly Lys Trp Ser Gly Gln Ser Ala Gly Gly
                                    90
Cys Gly Asn Phe Gln Glu Thr His Lys Asn Asn Pro Ile Tyr Gln Phe
            100
                                105
                                                    110
His Ile Glu Lys Thr Gly Pro Leu Leu Ile Glu Leu Arg Gly Pro Xaa
                            120
Arg Ser Trp Ser Pro Trp Leu Ser Glu Glu Ile
                        135
<210> 8122
<211> 342
<212> PRT
<213> Homo sapiens
<400> 8122
Met Ala Glu Asp Val Ser Ser Ala Ala Pro Ser Pro Arg Gly Cys Ala
Asp Gly Arg Asp Ala Asp Pro Thr Glu Glu Gln Met Ala Glu Thr Glu
                                25
Arg Asn Asp Glu Glu Gln Phe Glu Cys Gln Glu Leu Leu Glu Cys Gln
                            40
Val Gln Val Gly Ala Pro Glu Glu Glu Glu Glu Glu Xaa Asp Ala
                        55
                                            60
Gly Leu Val Ala Glu Ala Glu Ala Val Ala Ala Gly Trp Met Leu Asp
Phe Leu Cys Leu Ser Leu Cys Arg Ala Phe Arg Asp Gly Arg Ser Glu
                                    90
Asp Phe Arg Arg Pro Ala Thr Ala Gln Arg Leu Leu Phe Met Asp Tyr
            100
                                105
Pro Val
<210> 8123
<211> 309
<212> PRT
<213> Homo sapiens
<400> 8123
Met Ala Gly Leu Thr Asp Leu Gln Arg Leu Gln Ala Arg Val Glu Glu
```

Leu Glu Arg Trp Val Tyr Gly Pro Gly Gly Ala Arg Gly Ser Arg Lys



 Val
 Ala
 Asp Gly Leu Val
 Lys Val
 Gln Val
 Ala Leu Gly Asn Ile Ser 45

 Ser Lys Arg Glu Arg Val
 Lys Ile Leu Tyr Lys Lys Lys Ile Glu Asp Leu 50
 55
 60
 11e Asp Arg Ile Ala Ile Pro Asp 80

 Ala Ser Lys Lys Lys Tyr Leu Asp Pro Glu Tyr Ile Asp Arg Ile Ala Ile Pro Asp 75
 80

 Ala Ser Lys Leu Gln Phe Ile Leu Ala Glu Glu Gln Phe Ile Leu Ser 85
 90
 95

 Xaa Val Ala Leu Leu Ser Arg 100
 100

<210> 8124 <211> 375 <212> PRT <213> Homo sapiens

<400> 8124

120

Met Gly Leu Ala Gly Val Cys Ala Leu Arg Arg Ser Ala Gly Tyr Ile

<210> 8125 <211> 306 <212> PRT <213> Homo sapiens

<400> 8125

```
100
<210> 8126
<211> 324
<212> PRT
<213> Homo sapiens
<400> 8126
Met Ala Ala Val Leu Gln Arg Val Glu Arg Leu Ser Asn Arg Val Val
Arg Val Leu Gly Cys Asn Pro Gly Pro Met Thr Leu Gln Gly Thr Asn
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Thr Tyr Leu Val Gly Thr Gly Pro Arg Arg Ile Leu Ile Asp Thr Gly Glu Pro Ala Ile Pro Glu Tyr Ile Ser Cys Leu Lys Gln Ala Leu Thr Glu Phe Asn Thr Ala Ile Gln Glu Ile Val Val Thr His Trp His Arg 70 75

Asp His Ser Gly Gly Ile Gly Asp Ile Cys Lys Ser Ile Asn Asp

Thr Thr Tyr Cys Xaa Lys Lys Leu Pro Arg Asn Pro

<210> 8127 <211> 306 <212> PRT <213> Homo sapiens

<400> 8127

Met Ser Cys Thr Arg Met Ile Gln Val Leu Asp Pro Arg Pro Leu Thr Ser Ser Val Met Pro Val Asp Val Ala Met Arg Leu Cys Leu Ala His Ser Pro Pro Val Lys Ser Phe Leu Gly Pro Tyr Asp Glu Phe Gln Arg 40 Arg His Phe Val Asn Lys Leu Lys Pro Leu Lys Ser Cys Leu Asn Ile 55 Lys His Lys Ala Lys Ser Pro Pro Asn Ile Ile Xaa Xaa Asp His Ser 70 Leu Pro Leu His Leu Leu Pro Lys Tyr Leu Ser Ala Arg Leu Ala Leu 90

Ala Ala Asp Leu Thr Ser 100

<210> 8128 <211> 327 <212> PRT <213> Homo sapiens

Met Ala Val Ala Arg Leu Ala Ala Val Ala Ala Trp Val Pro Cys Arg Ser Trp Gly Trp Ala Ala Val Pro Phe Gly Pro His Arg Gly Leu Ser 20 25 30

Glu Glu Phe Cys Lys Ser Leu Gly His Ala Cys Ile Arg 100 105

<210> 8129

<211> 315

<212> PRT

<213> Homo sapiens

<400> 8129

Met Met Asp Val Ser Gly Val Gly Phe Pro Ser Lys Val Pro Trp Lys

1 10 15

Lys Met Ser Ala Cly Cly Ley Gly Asp Gly Try Company

Lys Met Ser Ala Glu Glu Leu Glu Asn Gln Tyr Cys Pro Ser Arg Trp 20 25 30

Val Val Arg Leu Gly Ala Glu Glu Ala Leu Arg Thr Tyr Ser Gln Ile 35 40 45

Gly Ile Glu Ala Thr Thr Arg Ala Arg Ala Thr Arg Lys Ser Leu Leu
50 55 60

His Val Pro Tyr Gly Asp Gly Glu Gly Glu Lys Val Asp Ile Tyr Phe 65 70 75 80

Pro Asp Glu Ser Ser Glu Ala Leu Pro Phe Phe Leu Phe Phe His Gly
85 90 95

Gly Tyr Trp Gln Ser Gly Arg Leu Ser 100 105

<210> 8130

<211> 327

<212> PRT

<213> Homo sapiens

<400> 8130

Met Glu Val His Gly Lys Pro Lys Ala Ser Pro Ser Cys Ser Ser Pro

1 5 10 15

Thr Arg Asp Ser Ser Gly Val Pro Val Ser Lys Gly Ley Ley Thr Ala

Thr Arg Asp Ser Ser Gly Val Pro Val Ser Lys Glu Leu Leu Thr Ala
20 25 30

Gly Lys Pro Thr Ala Ala Xaa Xaa Ile Trp Asp Xaa Leu Leu Ile Asn 35 40 45

Ser Gln Pro Lys Ser Arg Lys Thr Ser Thr Leu Gln Xaa Val Arg Ile 50 55 60

Glu Arg Ser Pro Leu Leu Asp Gln Val Gln Thr Phe Leu Pro Gln Met
65 70 75 80

Ala Arg Ala Asn Glu Lys Leu Arg Lys Glu Met Ala Ala Pro Pro 85 90 95

Gly Arg Phe Asn Ile Glu Asn Xaa Asp Gly Pro His Lys
100 105

<210> 8131

```
<211> 333
 <212> PRT
 <213> Homo sapiens
 <400> 8131
Met Ser Ser Glu Met Leu Pro Ala Phe Ile Glu Thr Ser Asn Val Asp
Lys Lys Gln Gly Ile Asn Glu Asp Gln Glu Glu Ser Gln Lys Pro Arg
Leu Gly Glu Gly Cys Glu Pro Ile Ser Lys Arg Gln Met Lys Lys Leu
Ile Lys Gln Lys Gln Trp Glu Glu Gln Arg Glu Leu Arg Lys Gln Lys
                         55
Arg Lys Glu Lys Arg Lys Lys Leu Glu Arg Gln Cys Gln Met
Xaa Pro Asn Ser Asp Gly His Asp Arg Lys Arg Val Arg Arg Asp Val
                85
                                    90
Val His Ser Thr Phe Ala Leu Leu Leu Thr Val Val Leu Ile Thr
                                 105
<210> 8132
<211> 342
<212> PRT
<213> Homo sapiens
<400> 8132
Met Lys Leu Glu Thr Ser Ile Arg Glu Leu His Glu Met Phe Met Asp
Met Ala Met Phe Val Glu Thr Gln Gly Glu Met Ile Asn Asn Ile Glu
Arg Asn Val Met Asn Ala Thr Asp Tyr Val Glu His Ala Lys Glu Glu
Thr Lys Lys Ala Ile Lys Tyr Gln Ser Lys Ala Arg Arg Lys Leu Met
Phe Ile Ile Cys Val Ile Val Leu Leu Val Ile Leu Gly Ile Ile
                    70
Leu Ala Xaa Asn Ile Val Ile Ala Thr Ile Ser Gln Glu Pro Phe Ile
Leu Glu Thr Gln Thr Thr Ser Ala Thr Lys Ser Ala Ser Cys His Phe
                                105
Arg Glu
<210> 8133
<211> 357
<212> PRT
<213> Homo sapiens
<400> 8133
Met Val Asp Lys Lys Leu Val Val Val Phe Gly Gly Thr Gly Ala Gln
Gly Gly Ser Val Ala Arg Thr Leu Leu Glu Asp Gly Thr Phe Lys Val
Arg Val Val Thr Arg Asn Pro Arg Lys Lys Ala Ala Lys Glu Leu Arg
```

40

Leu Gln Gly Ala Glu Val Val Gln Gly Asp Gln Asp Asp Gln Val Ile Met Glu Leu Ala Leu Asn Gly Ala Tyr Ala Thr Phe Ile Val Thr Asn Tyr Trp Glu Ser Cys Ser Gln Glu Gln Glu Val Lys Gln Gly Lys Leu 90 Leu Ala Asp Leu Ala Arg Arg Leu Gly Leu His Tyr Val Ser Thr Ala 105 Ala Trp Arg Thr Ser Arg Ser 115

<210> 8134 <211> 309 <212> PRT <213> Homo sapiens

<400> 8134

Met Phe Leu Ile Pro Leu Gly Asn Ser Leu Thr Leu Phe Cys Ile Leu Phe Tyr Ser Phe His His Lys Thr Ala Ile Ala Tyr Phe Trp Ala Arg 25 Ala Ile Ile Gln Thr Leu Ile Leu Gln Thr Leu Leu Leu Met Asn 40 Ser Ser Leu Ile Asp Cys Arg Val Val His Tyr Tyr Leu Phe Leu Gln 60 Val Ser Gln Asp His Pro Ser Ala Cys Pro Thr Thr Arg Tyr Leu Gln 70 Leu Ser His Phe Leu Ile Xaa Ser Leu Gln Gln Ser Leu Tyr Ile Tyr Ser Ile Val Thr His Cys Ile

<210> 8135 <211> 315 <212> PRT <213> Homo sapiens

100

<400> 8135

Met Asp Phe Thr Glu Ala Tyr Ala Asp Thr Cys Ser Thr Val Gly Leu Ala Ala Arg Glu Gly Asn Val Lys Val Leu Arg Lys Leu Leu Lys Lys 25 Gly Arg Ser Val Asp Val Ala Asp Asn Arg Gly Trp Met Pro Ile His 40 Glu Ala Ala Tyr His Asn Ser Val Glu Cys Leu Gln Met Leu Ile Asn Ala Asp Ser Ser Glu Asn Tyr Ile Lys Met Lys Thr Phe Glu Gly Phe 75 Cys Ala Leu His Leu Gly Cys Lys Ser Arg Thr Leu Glu Asn Arg Thr 85 Asp Ser Phe Arg Ser Trp Gly Arg Ser 100

<210> 8136



<211> 363

<212> PRT

<213> Homo sapiens

<400> 8136

Met Lys Glu Ala Gly Gln Met Gln Asn Leu Glu Ser Ala Arg Ala Gly
1 5 10 15

Arg Ser Val Ser Thr Gln Thr Gly Ser Met Thr Gly Gln Ile Pro Arg
20 25 30

Leu Ser Lys Val Asn Leu Phe Thr Leu Leu Ser Leu Trp Met Glu Leu 35 40 45

Phe Pro Ala Glu Ala Gln Arg Gln Lys Ser Gln Lys Asn Glu Glu Gly 50 55 60

Lys His Gly Pro Leu Gly Asp Asn Glu Glu Arg Thr Arg Val Ser Thr 65 70 75 80

Asp Lys Arg Gln Val Lys Arg Thr Gly Leu Val Val Val Lys Asn Met 85 90 95

Lys Ile Val Gly Leu His Cys Ser Ser Glu Asp Leu His Ala Gly Gln
100 105 110

Ile Ala Leu Ile Lys His Gly Ser Xaa 115 120

<210> 8137

<211> 339

<212> PRT

<213> Homo sapiens

<400> 8137

Met Tyr Thr Arg Glu Ala Ala His Lys Leu Thr Gly Arg Gly Ser Ser 1 5 10 15

Ser Val Tyr Ala Leu Leu Gly Asn Cys Val Ser Ala Ala Gly Gln Arg 20 25 30

Ala Met Phe Pro Gly Glu Glu Ile Gly Gln Ala Gly Leu Pro Ile Ala 35 40 45

Phe Leu Lys Ile Leu Glu Thr Leu Ser Phe Ile Glu Leu Arg His Cys 50 55 60

Pro Pro Leu Ile Ser Ser Lys Thr Pro Val Thr Arg Leu Lys Pro Cys 70 75 80

Leu Val Phe Arg Arg Ser Met Gly Pro Arg Leu Lys Glu Pro Ala Pro 85 90 95

Leu Leu Arg Ala Thr Val Thr Thr Leu Arg Glu Asn Thr Ala Pro Ile
100 105 110

Ser

<210> 8138

<211> 339

<212> PRT

<213> Homo sapiens

<400> 8138

Met Phe Glu Ile Cys Ser Gly Ile Asn Thr Arg Tyr Lys Asn Thr Lys

1 5 10 15

Ala Ser Thr Lys Gln Lys Gln Ile Ser Glu Leu Ser Gln Arg Thr Thr
20 25 30



```
Asn Arg Arg Asp Arg Asp Arg Arg Ala Arg Leu Leu His Phe Asn
Lys Ala Gly Leu Pro Met Leu Asn Thr Leu Met Glu Val Thr Glu Leu
Asn Pro Gly Gly Ser Val Phe Asn Leu Met Ala Ser Cys Asn Thr Gln
                                         75
Val Ala Ala Leu Ile Ser Gln Trp Leu Lys Leu Cys Ile Pro Thr Ser
                 85
Ser Thr Arg Thr Phe Ala Ser Ser Thr Gln Asn Arg Lys Ala Ser Val
                                 105
Pro
<210> 8139
<211> 363
<212> PRT
<213> Homo sapiens
<400> 8139
Met Lys His Phe Tyr Thr Leu Lys Cys Arg Ser Met Leu Glu Ile Tyr
Ser Cys Tyr Gln Ser Ser Ile Lys Cys Leu Pro Leu Gly Lys Asn Asp
Thr Leu Val Asn Pro Asn Met Pro Arg Tyr Pro Leu Cys Ile Leu Arg
                             40
Arg Met Phe Leu Phe Lys Leu Ile Ile Val Leu Ser Ile Lys His Leu
                        55
Thr Ser Val Val Thr Ser Gly Phe Lys Ser Pro Xaa Xaa Pro Trp Gly
Thr Gln Ser His Gln Arg Asn Phe Glu Arg Ser Ser Gln Leu Leu Ser
                                     90
Thr Ile Glu Gly Arg Asn Arg Ile Arg Asn Arg Ser Leu Ile Lys His
            100
Met Asn Lys Leu Asn Pro Leu Leu Ile
        115
<210> 8140
<211> 345
<212> PRT
<213> Homo sapiens
<400> 8140
Met Val Ser Arg Val Gln Leu Pro Pro Glu Ile Gln Leu Ala Gln Arg
Leu Ala Gly Asn Glu Gln Val Thr Arg Asp Arg Ala Val Arg Lys Leu
                                25
Arg Lys Tyr Ile Val Ala Arg Thr Gln Arg Ala Ala Gly Gly Phe Thr
His Asp Glu Leu Leu Lys Val Trp Lys Gly Leu Phe Tyr Cys Met Trp
                        55
Met Gln Asp Lys Pro Leu Leu Gln Glu Glu Leu Gly Arg Thr Ile Ser
                                        75
Gln Leu Val His Ala Phe Gln Thr Thr Glu Ala Xaa Thr Cys Ser Phe
                                    90
Arg Pro Ser Gly Arg Pro Xaa Ile Ala Ser Gly Arg Ala Leu Thr Gly
```

100 105 110 Cys Ala Gly 115 <210> 8141 <211> 417 <212> PRT <213> Homo sapiens <400> 8141 Met Glu Xaa Met Gly Cys Arg Phe Tyr His Ala Ala Ser Ile Ala Ala 10 Arg Ala Xaa Ser Tyr Met Ala Tyr Met Thr Gln Tyr Gln Arg Lys Leu 25 Trp Xaa Asp Ile Xaa Asp Leu Val His Asp Pro Glu Phe Asp Arg Gly Xaa Ala Arg Cys Ile Ile Ser Asp Gly Met Asp Ala Gly Leu Trp Gln 55 Leu Cys Thr Thr Arg Asp Ile Met Asp Ser Val Val Arg Val Met Ala Met Ala Ile Asp Tyr Arg Arg Gln Ala Trp Leu Arg Leu Thr Ser Leu 90 Thr Lys Lys Thr Xaa Glu Xaa Ile Ser His Leu Pro Phe Asp Gly Xaa 105 Ser Leu Phe Gly Gln Asp Val Lys Ala Val Val Ala Glu Asp Asn Asn 120 Xaa Xaa Xaa Asn Asp Tyr Xaa Asp Xaa Xaa Tyr 130 135 <210> 8142 <211> 324 <212> PRT <213> Homo sapiens <400> 8142 Met Glu Leu Thr Gly Asp Ser Met Glu Val Lys Pro Ile Met Thr Ile Lys Leu Arg Arg Arg Pro Asn Asp Pro Val Pro Ile Pro Asp Lys Arg Arg Lys Pro Ala Pro Ala Gln Leu Asn Tyr Leu Leu Thr Asp Glu Gln 40 Ile Met Glu Asp Leu Arg Thr Leu Asn Lys Leu Lys Ser Pro Lys Arg 55 Pro Ala Ser Pro Ser Ser Pro Glu His Leu Pro Ala Thr Pro Ala Glu 75 Ser Pro Ala Gln Lys Phe Glu Ala Arg Ile Glu Asp Gly Lys Leu Tyr Tyr Asp Gln Arg Trp Tyr Val Xaa Gly Asn Leu Asp <210> 8143 <211> 321 <212> PRT <213> Homo sapiens

<210> 8145 <211> 327 <212> PRT <213> Homo sapiens

<400> 8145

 Met
 Xaa
 Leu
 Pro
 Xaa
 Asn
 Phe
 Ser
 Xaa
 Arg
 Thr
 Gln
 Tyr
 Met

 1
 1
 5
 1
 10
 10
 15
 15
 15

 Ser
 Xaa
 Leu
 Pro
 Ile
 Asp
 Ala
 Ser
 Pro
 Asp
 Pro
 Leu
 Cys
 Trp
 Ser
 Ala

 Leu
 Ala
 Leu
 Ile
 Arg
 Lys
 Tyr
 Gln
 Arg
 Leu
 Ser
 Gly
 Leu
 Asn
 Lys
 Arg

 His
 Leu
 Phe
 Ser
 His
 Ser
 Pro
 Gly
 Trp
 Lys
 Ser
 Lys
 Thr
 Lys
 Val

 50
 55
 55
 60
 60
 Fee
 He
 Gly
 Leu
 Gly
 L

Ala Leu Val Gly Leu Leu Ser Ala Gly Val Pro Gly Val Ser Leu Cys
85 90 95

Val Gln Ile Phe Ser Tyr Lys Asp Thr Gly Glu Ile Gly
100 105

<210> 8146 <211> 333 <212> PRT <213> Homo sapiens

<400> 8146

 Met
 Ile
 Glu
 Thr
 Tyr
 Asn
 Gln
 Thr
 Ser
 Pro
 Arg
 Ser
 Ala
 Ala
 Thr
 Gly

 1
 1
 5
 1
 10
 1
 1
 15
 15

 Leu
 Pro
 Ile
 Ser
 Met
 Lys
 Ile
 Phe
 Met
 Tyr
 Leu
 Thr
 Val
 Phe
 Leu

 July
 Pro
 Ile
 Ile</t

105

<210> 8147 <211> 333 <212> PRT <213> Homo sapiens

100

<400> 8147

 Met
 Ala
 Ala
 Cly
 Cly
 Ser
 Gly
 Leu
 Trp
 Arg
 Pro
 Arg
 Ser
 Arg

 1
 5
 10
 15

 Asp
 Gly
 Phe
 Cys
 Pro
 Arg
 Ala
 Val
 Arg
 Gly
 Ser
 Ala
 Trp
 Leu
 Trp
 Arg
 Arg</t

<210> 8148 <211> 354

<212> PRT

<213> Homo sapiens

<400> 8148

Met Glu Pro Lys Lys Ala Cys Ile Ala Lys Ser Ile Leu Ser Gln Lys



1 5 10 15

Asn Lys Ala Gly Gly Ile Thr Leu Pro Asp Phe Lys Leu Tyr Tyr Lys
20 25 30

Ala Thr Val Thr Lys Thr Ala Trp Tyr Trp Tyr Gln Asn Arg Asp Ile
35 40 45

Asp Gln Trp Asn Arg Thr Glu Pro Ser Glu Ile Met Leu His Ile Tyr
50 55 60

Asn His Leu Ile Phe Asp Arg Pro Asp Lys Asn Lys Lys Trp Gly Lys
65 70 75 80

Asp Ser Leu Phe Asn Xaa Trp Cys Trp Glu Asn Trp Leu Ala Ile Cys
85
90
95

Arg Lys Leu Lys Leu His Pro Phe Leu Thr Leu Tyr Ala Lys Leu Ile 100 105 110

Gln Asp Gly Leu Lys Thr 115

<210> 8149

<211> 402

<212> PRT

<213> Homo sapiens

<400> 8149

Met Thr Phe Phe Cys Trp Asn Leu Val Gly Pro Leu Glu Phe Ser Tyr

1 10 15

Arg Asn Leu Ser Leu Ser Arg Gln Asn Ile Asp Ser Trp Cys Lys Asp
20 25 30

His Ser Tyr Val Ile Ala Gly Tyr Tyr Gln Ala Asn Glu Arg Val Lys 35 40 45

Asp Ala Ser Pro Asn Gln Val Ala Glu Lys Val Ala Ser Arg Ile Ala 50 55 60

Glu Gly Phe Ser Asp Thr Ala Leu Ile Met Val Asp Asn Thr Lys Phe 65 75 80

Thr Met Asp Cys Val Gly Leu Arg Ser Thr Cys Thr Ser Thr Met Arg 85 90 95

Thr Asp Gly Gly Ala Glu Thr His Thr Met Thr Thr Val Xaa Leu Ala
100 105 110

Arg Gly Thr Xaa Asp Leu Ser Leu Ala Pro Gly Gln Pro Val Leu Arg 115 120 125

Asp Ala Arg Gly Phe Arg

130

<210> 8150

<211> 306

<212> PRT

<213> Homo sapiens

<400> 8150

Met Ser Ser Asp Glu Glu Lys Tyr Ser Leu Pro Val Val Gln Asn Asp

1 10 15

Ser Ser Arg Gly Ser Ser Val Ser Ser Asn Leu Gln Glu Glu Tyr Glu 20 25 30

Glu Leu Leu His Tyr Ala Ile Val Thr Pro Asn Ile Glu Pro Cys Ala 35 40 45

Ser Gln Ser Ser His Pro Lys Gly Glu Leu Val Pro Asp Val Arg Ile

```
50
                        55
Ser Thr Ile His Asp Ile Leu His Ser Gln Gly Asn Asn Ser Glu Val
                                         75
Arg Glu Thr Ala Ile Glu Val Gly Lys Gly Cys Asp Phe His Ile Val
                                    90
Lys Ser Phe Lys Asp Arg
            100
<210> 8151
<211> 363
<212> PRT
<213> Homo sapiens
<400> 8151
Met Arg Leu Glu Cys Asn Gly Thr Ile Leu Ala His Cys Asn Leu His
Leu Pro Gly Ser Ser Asp Ser Pro Ala Ser Ala Ser Arg Val Ala Gly
                                25
Ile Thr Glu Gln Leu Arg Gly Leu Ser Trp Leu Tyr Glu Asn Leu Val
Gly Phe Leu Lys Ile Lys Ser Thr Lys Met Lys Leu Gln Thr Arg Leu
                        55
Trp Pro Pro Gly Val Ser His Phe Gln Ala Ser Ala His Ser Ala Ser
                    70
Gly Asn Leu Leu Lys Ser Leu Phe Lys Cys Ser Tyr Gln Phe Met Ile
                85
                                    90
Leu Ala Ala Ser Ala Ser Asp Lys Gln Ile Ser Ala Val Thr Pro Trp
                                105
Ile Arg Leu Ser Leu Gln Ile Ser Gly
        115
<210> 8152
<211> 306
<212> PRT
<213> Homo sapiens
<400> 8152
Met Cys Val Arg Leu Cys Val Gly Gly Cys Val Phe Phe Cys Thr Pro
Gly Gly Arg Gly Ile Cys Lys Val Ser Ser Leu Leu Ser Cys Arg Val
                                25
Asp Met Gln Pro Thr Asp Met His Ser Leu Leu Gln Pro Gln Pro
                            40
Pro Leu Gln Pro Leu Gln Pro Leu Thr Val Thr Val Met Ala Gly
                        55
                                            60
Cys Thr Gln Pro Thr Pro Thr Met Pro Leu Pro Leu Pro Leu Ala Met
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Pro Pro Thr Glu Val Thr
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Gly Asn Asn Lys Gln Lys Ala Asn Leu Ile Val Leu Gly Ala Val Pro
                        55
Arg Leu Leu Tyr Leu Leu Gln Gln Glu Thr Ser Ser Thr Glu Leu Lys
                                        75
Thr Glu Cys Xaa Trp Cys Trp Glu Val Leu Leu Trp Val Leu Lys Thr
                                    90
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Xaa Tyr Cys Pro Gln Thr
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Asn Ser Leu Val Arg Glu Glu Lys Glu Thr Thr Asp Thr Arg Lys Lys
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Ser Leu Leu Ser Kaa Ala Leu Ala Lys Ser Gly Glu Arg Leu Gln Ala
                            40
Leu Thr Leu Leu Met Ile His Tyr Arg Ala Gly Ile Glu Asp Ile Glu
                                             60
                        55
Thr Leu Glu Ser Leu Ser Leu Asp Gln His Ser Lys Lys Ile Ser Lys
Tyr Thr Asp Asp Thr Glu Glu Asp Leu Asp Asn Glu Ile Ser Gln Leu
                                    90
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Ile Asp Ser Gln Pro Phe Ser Ser Ile Ser Asp Asp Leu Phe Gly Pro
                                105
Ser Glu Ser Val
        115
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Ile Cys Phe Gln Leu Phe Gly Glu Tyr Ile Tyr Glu Leu Pro Ile Asn
                                25
Gly Ser Asn Asp Asn Ser Leu Ile Val Lys Leu Ser Pro Lys Val Leu
Val Thr Phe Ile Asn Thr Ser Val Ile Cys Thr Ser Val Pro Leu Ser
                        55
                                             60
Pro Pro Pro Cys Gln His Leu Leu Ser Ile Phe Phe Leu Ile Leu
                    70
                                        75
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Ala Ile Leu Val Val Met Ile Gln Tyr Phe Met Val Asp Leu Thr Xaa

Thr Ser Leu Met Ser Asn Glu Ala Glu His Leu Phe Met Cys Leu Leu 100 Xaa Ile Ser Val Ser Phe Ser Lys Lys 115

<210> 8158 <211> 399 <212> PRT <213> Homo sapiens

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Phe Gln Pro Gln Asn Xaa Leu Ser Gly Ala Gln Gln Phe Val Ala Lys 115 120 Asp Pro Gln Asp Glu

130

<210> 8159 <211> 333 <212> PRT

<213> Homo sapiens

<400> 8159

Met Pro Gly Tyr Glu Val Ala Lys Tyr Asp Leu Ile Trp Ile Cys Asp Ser Gly Ile Arg Val Ile Pro Asp Thr Leu Thr Asp Met Val Asn Gln 25 Met Thr Glu Lys Val Gly Leu Val His Gly Leu Pro Tyr Val Ala Asp Arg Gln Gly Phe Ala Ala Thr Leu Glu Gln Met Glu Ser Arg Ser Val 55 Ala Gln Ala Gly Val Gln Trp Arg Asp Leu Gly Ser Leu Gln Ala Pro 70 75 Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg Cys Pro Pro Pro Cys Leu Ala Asn Phe Leu Tyr Phe 100 105

<210> 8160 <211> 318

<212> PRT

<213> Homo sapiens

<400> 8160

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Gly Ser Pro Pro Trp Lys Glu Ala Phe Arg Gln Arg Cys Leu Glu Arg
20 25 30

Met Arg Asn Ser Arg Asp Arg Leu Leu Asn Arg Tyr Arg Gln Ala Gly
35 40 45

Ser Ser Gly Pro Gly Asn Ser Gln Asn Ser Phe Leu Val Gln Glu Val
50 55 60

Met Glu Glu Glu Trp Asn Ala Leu Gln Ser Val Glu Asn Cys Pro Glu 65 70 75 80

Asp Leu Ala Gln Leu Glu Glu Leu Ile Asp Met Ala Val Leu Glu Glu 85 90 95

Ile Gln Gln Glu Leu Ile Asn Gln Gly Leu 100 105

<210> 8161

<211> 351

<212> PRT

<213> Homo sapiens

<400> 8161

Met Ala Tyr Leu Cys Ser Lys Ile Leu Lys Ile Tyr Thr Val Val His 1 5 10 15

Lys Gly Pro Thr Arg Gly Ser Ile Leu Asp Phe Tyr Leu Pro Gln Thr

Val Thr Ser Ser Thr Ser Glu Ser Ser Gly Phe Lys Trp Leu Ser Ser 35 40 45

Leu His Asp Ser Leu Gly Leu Leu Gln Thr Ser Asp Val Leu Ala Ser 50 55 60

Ile Gln Asn Trp Gln Ala Phe Arg Leu Ala Val Met Val Met Gln Tyr
65 70 75 80

Ile Leu Leu Ser Leu Leu Thr Tyr Met Val Pro Phe Leu Lys Gly Arg 85 90 95

Arg Ala Gln Met Gln Gln Phe Leu Phe Val Leu Arg Glu Leu Ser Gln
100 105 110

His Val Pro Asp His

115

<210> 8162

<211> 339

<212> PRT

<213> Homo sapiens

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Met Ile Leu Pro Phe Arg Gly Gln Pro Ile Ile Phe Asn Pro Asp Phe 1 5 10 15

Phe Val Glu Lys Leu Arg His Glu Lys Pro Glu Ile Phe Thr Glu Leu 20 25 30

Val Val Ser Asn Ile Thr Arg Leu Ile Asp Leu Pro Gly Thr Glu Leu 35 40 45

Ala Gln Leu Met Gly Glu Val Asp Leu Lys Leu Pro Gly Gly Ala Gly

Met Ala Thr Val Asp Ile Lys Asn Pro Glu Ile Thr Thr Asn Arg Phe

5 10 15

Tur Clu Dro Cla Val Asp Ile Lys Asn Pro Glu Ile Thr Thr Asn Arg Phe

Tyr Gly Pro Gln Val Asn Asn Ile Ser His Thr Lys Xaa Lys Lys Lys 20 25 30

Gly Lys Ala Lys Lys Lys Arg Leu Thr Lys Ala Asp Ile Gly Thr Pro 35 40 45

Ser Asn Phe Gln His Ile Gly His Val Gly Trp Asp Pro Asn Thr Gly 50 55 60

Phe Asp Leu Asn Asn Leu Asp Pro Glu Leu Lys Asn Leu Phe Asp Met 65 70 75 80

Cys Gly Ile Ser Glu Ala Gln Leu Lys Asp Arg Glu Thr Ser Lys Val 85 90 95

Ile Tyr Asp Phe Ile Glu Lys Thr Gly Gly Val Glu Ala Val Lys Asn 100 105 110

Glu Leu Arg Arg Gln Gly Asn Phe Tyr Leu Tyr Ser Ala Phe Cys Phe 115 120 125

Val Leu Ile Phe 130

<210> 8164

<211> 312

<212> PRT

<213> Homo sapiens

<400> 8164

Cys Arg Gly Leu Ala Trp Ser Leu Asn Ile Phe Pro Ile Pro Leu His

50 55 60

Phe Leu Phe Glu Ile Phe Leu Leu Xaa Pro Cys Pro Ser Ser Thr Pro 65 70 75 80

His Ser His Leu Phe Leu Gly Leu His Phe Asp Thr Lys Phe Ser Leu
85 90 95

Phe Ser Met Gly Ile Phe Ile His

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Tyr Lys Asp Ala Met Glu Gln Cys His Asn Tyr Asn Ala Arg Leu Cys
Ala Glu Arg Xaa Xaa Arg Leu Pro Phe Leu Asp Ser Gln Thr Gly Val
Ala Gln Ser Asn Cys Tyr Ile Trp Met Glu Lys Arg His Arg Gly Pro
Gly Leu Ala Ser Gly Gln Leu Tyr Ser Tyr Pro Ala Arg Arg Trp Arg
                    70
                                         75
Lys Lys Arg Arg Ala His Pro Pro Glu Asp Pro Arg Leu Ser Phe Pro
Ser Ile Lys Pro Asp Thr Asp Arg Pro
            100
<210> 8166
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<213> Homo sapiens
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Ile Leu Thr Met Gln Trp Arg Ile Ser Leu His Met Pro Leu Tyr Xaa
                                 25
Pro Xaa Val Ile Ile Ser Leu Val Gln Thr Pro Arg Ser Arg Ile Pro
                            40
Trp Ser Arg Asn Ile Leu Asn Leu Asn Ser Asp Arg Tyr Gln His Cys
                        55
Leu Pro Lys Xaa Leu Tyr His Cys Thr Leu Leu Ser Ala Met Lys Ser
Thr Ser Cys Thr Asn His Arg Val Arg Tyr Xaa Xaa Gln Lys Asn Ala
                                    90
Glu Gly Ile Val Pro Ala Phe Gly Val Leu Asn Asn Asp Glu Thr Asp
                                105
Met
<210> 8167
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<212> PRT
<213> Homo sapiens
<400> 8167
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Leu Glu Arg Glu Asp Leu Ser Leu Pro Glu Leu Leu Asp Glu Glu Asp
            20
                                25
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Val Leu Gln Glu Cys Lys Val Val Asn Arg Lys Leu Leu Asp Phe Leu 35 40 45 Leu Gln Pro Pro His Leu Gln Ala Met Val Ala Trp Val Thr Gln Glu

50 55 60

Pro Pro Asp Ser Gly Glu Glu Arg Leu Arg Tyr Lys Tyr Pro Ser Val 65 70 75 75 70 80 Ala Cys Glu Ile Xaa Thr Ser Asp Val Pro Gln Ile Asn Asp Ala Leu 85 90 95

Gly Ala Asp Glu Ser Phe 100

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<211> 417

<212> PRT

<213> Homo sapiens

<400> 8168

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Cys Ser Phe Leu Ala Ala Thr Ala Gly Asp Thr Gly Gly Gln Trp Val 35 40 45

Ser Trp Leu Glu Val Gly Thr Arg Leu Arg Lys Leu Gly Ser Ser Cys
50 55 60

Arg Leu Asp Arg His Tyr Ser Asn Asn Glu Thr Ser Gly Arg Ala Ser
65 70 75 80

Ser Ala Arg Gln Ser Ala Ile Phe Ile Leu Ser Ser Phe Phe Leu Thr 85 90 95

Gln Ser Leu Leu Cys Asn Arg His Cys Ser Arg His Trp Gly Tyr Asn 100 105 110

Gly Lys Gln Asn Arg Ala Ser Ile Leu Ala Gly Asp Arg Leu Xaa Asn 115 120 125

Cys Glu His Val Ser Leu Glu Lys Ala Val Cys 130 135

<210> 8169

<211> 402

<212> PRT

<213> Homo sapiens

<400> 8169

Met Ala Glu Met Arg Ala Trp Arg Pro Leu Val Arg Pro Ser Leu Gln
1 10 15

Cys Val Lys Leu Gly Arg Ala Thr Ala Arg Trp Trp Val Val Lys
20 25 30

Val Lys Pro His Asp Lys Asp Ala Lys Met Lys Tyr Gln Glu Cys Asn
35 40 45

Lys Ile Val Lys Gln Lys Xaa Phe Glu Arg Ala Ile Ala Gly Asp Glu 50 55 60

His Lys Arg Ser Val Val Asp Ser Leu Asp Ile Glu Ser Met Thr Ile 65 70 75 80

Glu Gly Glu Tyr Ser Gly Pro Lys Leu Glu Asp Asp Lys Val Thr Xaa 85 90 95



Thr Phe Met Lys Gly Leu Met Gln Trp Tyr Lys Asp Gln Lys Lys Leu
100 105 110

His Gln Lys Met Arg Leu Pro Gly Ser Gly Pro Leu Val Glu Val Gly
115 120 125

Gln Ala Pro Ser Arg Gly 130

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<211> 312

<212> PRT

<213> Homo sapiens

<400> 8170

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Asp Ala Phe Val Leu Lys Thr Pro Ser Ala Ala Tyr Leu Trp Val Gly 20 25 30

Thr Gly Ala Ser Glu Ala Glu Lys Thr Gly Ala Gln Glu Leu Leu Arg

Val Leu Arg Ala Gln Pro Val Gln Val Ala Glu Gly Ser Glu Pro Asp 50 55 60

Gly Phe Trp Glu Ala Leu Gly Gly Lys Ala Ala Tyr Arg Thr Ser Pro 65 70 75 80

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Ala Pro Thr Arg Leu Asp Val Leu 100

<210> 8171

<211> 303

<212> PRT

<213> Homo sapiens

<400> 8171

Met Ser Val Glu Lys Met Thr Lys Val Glu Glu Ser Phe Gln Lys Ala 1 5 10 15

Met Gly Leu Lys Lys Thr Val Xaa Arg Xaa Arg Asn Ser His Thr His
20 25 30

Cys Leu Trp Gln Met Ala Leu Gly Gln Arg Arg Asn Pro Tyr Ala Thr 35 40 45

Leu Arg Met Gln Asp Thr Met Val Gln Lys Leu Ala Leu Ala Lys Lys 50 55 60

Gln Leu Leu Met Val Arg Gln Ala Ala Leu His Gln Leu Phe Glu Lys 70 75 80

Glu His Gln Gln Tyr Gln Xaa Xaa Leu Asn Gln Met Gly Lys Ala Phe 85 90 95

Tyr Val Glu Arg Phe

100

<210> 8172

<211> 321

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Ala Lys Glu Thr Thr Ile Arg Val Asn Arg Gln Pro Thr Lys Trp Glu 35 40 45

Lys Ile Phe Ala Thr Tyr Leu Ser Asp Lys Gly Leu Ile Ser Arg Ile 50 55 60

Tyr Asn Glu Leu Lys Gln Ile Tyr Lys Lys Lys Asn Asn Pro Ile Lys 65 70 75 80

Lys Trp Ala Lys Asp Met Asn Arg His Phe Ser Lys Glu Asp Ile Tyr 85 90 95

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<211> 306

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<213> Homo sapiens

<400> 8173

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Glu Val Glu Ser Leu His Arg Pro Ile Thr Ser Ser Xaa Xaa Glu Ala 20 25 30

Val Ile Asn Ser Leu Ala Thr Lys Lys Ser Pro Gly Pro Asp Glu Phe 35 40 45

Tyr Gln Arg Tyr Lys Glu Glu Leu Val Pro Phe Leu Leu Lys Leu Leu 50 55 60

Gln Thr Ile Gln Lys Glu Gly Leu Leu Pro Asn Ser Phe Cys Glu Ala
65 70 75 80

Ser Val Ile Leu Met Pro Arg Pro Gly Arg Asp Thr Thr Lys Xaa Xaa 85 90 95

Ile Pro Gly Gln Tyr Pro

100

<210> 8174

<211> 330

<212> PRT

<213> Homo sapiens

<400> 8174

Met Ile Ala Asn Asp Val His Thr Leu Arg Arg Ser Lys Thr Thr Val

1 10 15

Gly Arg Pro Leu Ile Ala Trp Arg Tyr Val Pro Ile Asn Val Val Glu

Thr Leu Arg Thr Arg Gly Ala Pro Thr Arg Ile Val Arg Lys Val Ala
35 40 45

Arg Asn Leu Gly Lys Ala Thr Ser Gly Val Leu Val Val Leu Asp Val

Val Asn Leu Val Gln Asp Ser Leu Asp Leu His Lys Gly Ala Lys Ser 65 70 75 80

Glu Ser Ala Glu Ser Leu Arg Gln Trp Ala Gln Glu Leu Glu Glu Asn



| Ser | Ser

50 55 60

Arg Phe Leu His Gly Asn Val Thr Leu Gly Ala Leu Lys Leu Pro Phe 65 70 75 80

Gly Lys Thr Thr Val Met His Leu Val Ala Arg Glu Thr Leu Pro Glu 85 90 95

Pro Asn Ser Gln Arg Ser Glu Xaa Ser

Pro Asn Ser Gln Arg Ser Glu Xaa Ser 100 105

Gln Asp Glu Asn Arg Val Pro Ser Gly Val Xaa

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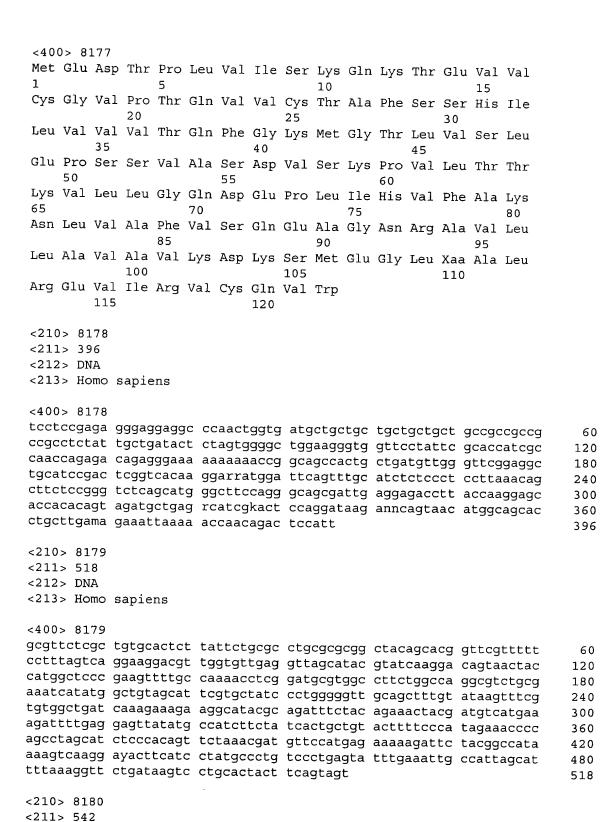
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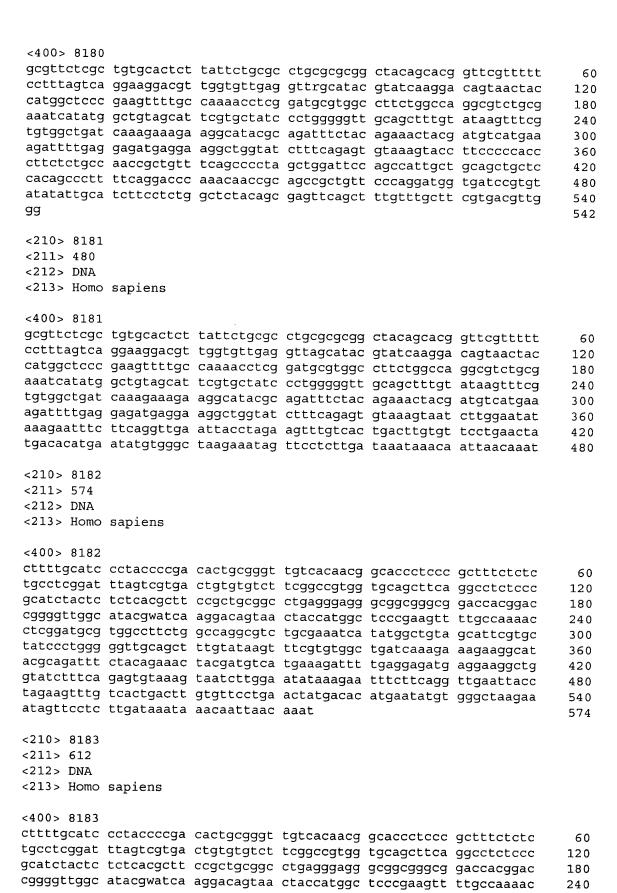
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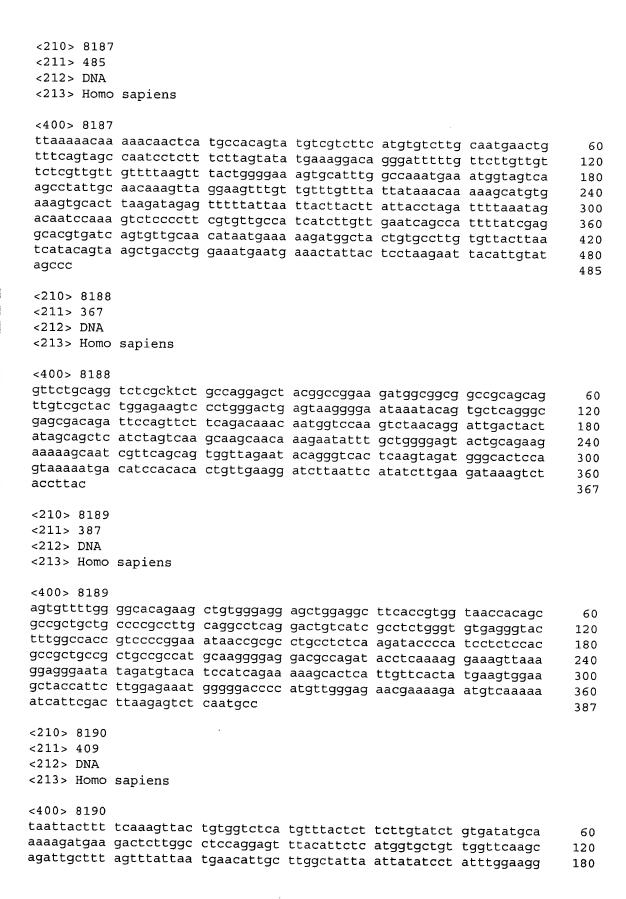








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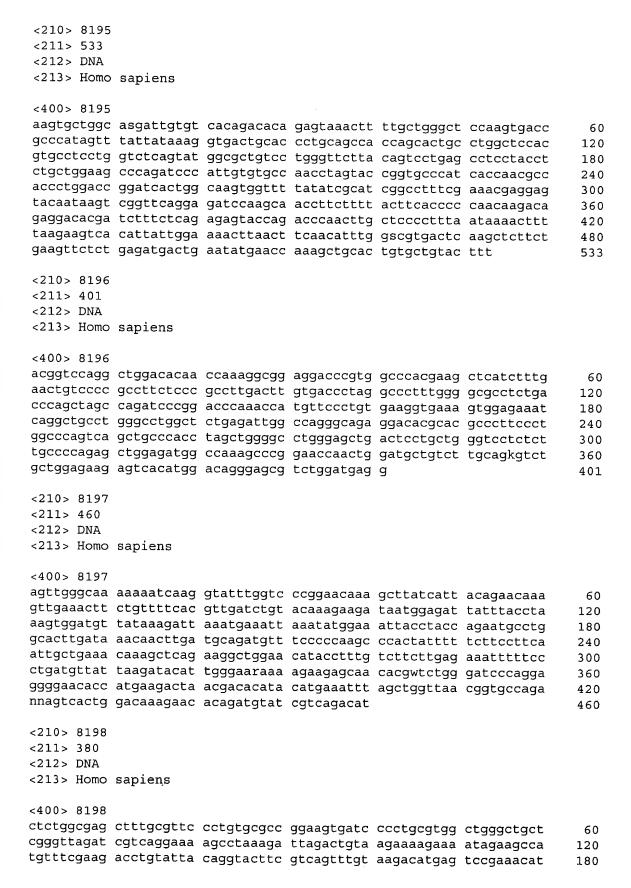




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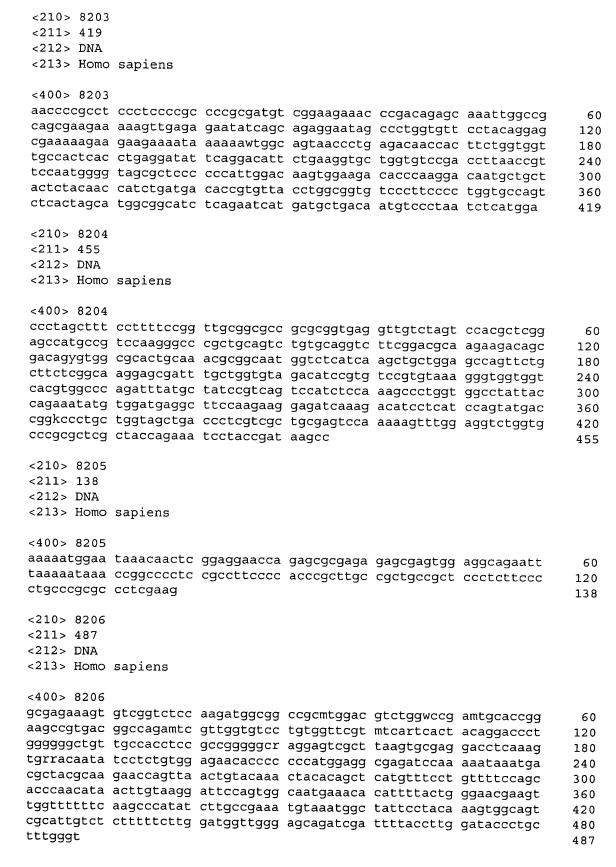






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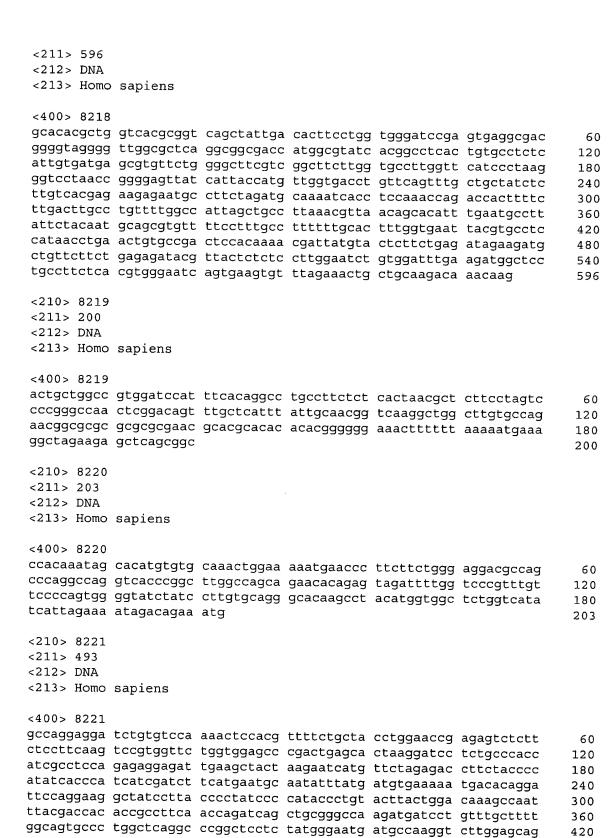
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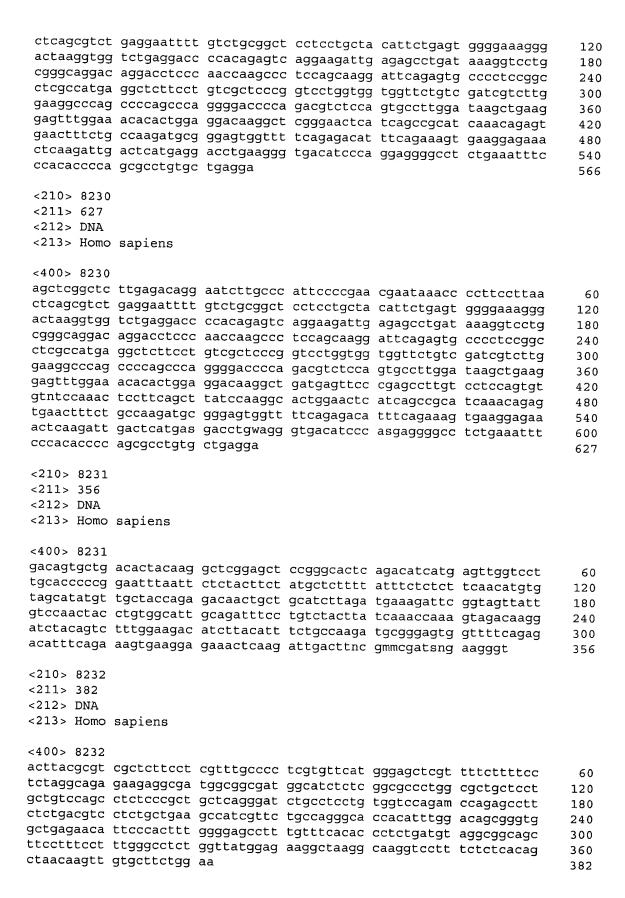


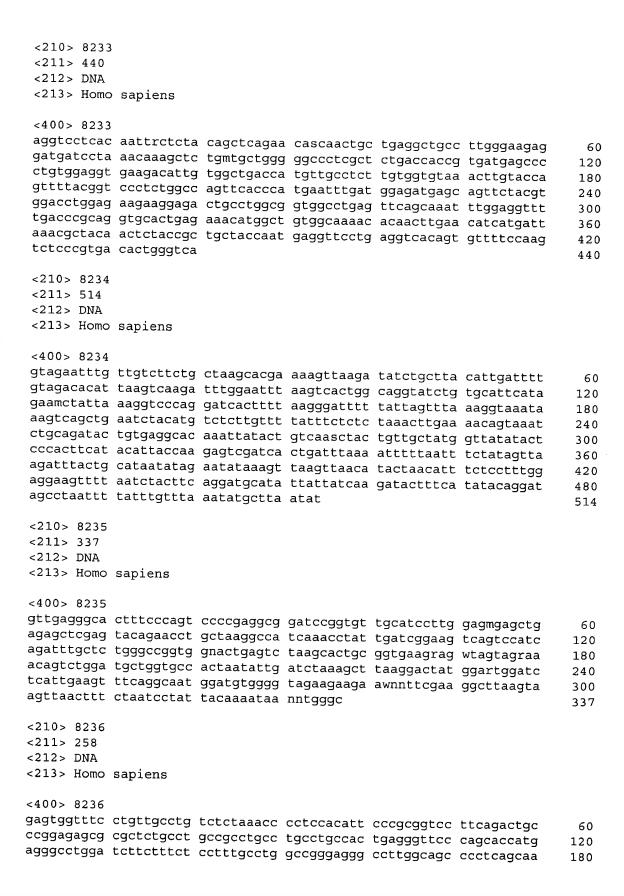
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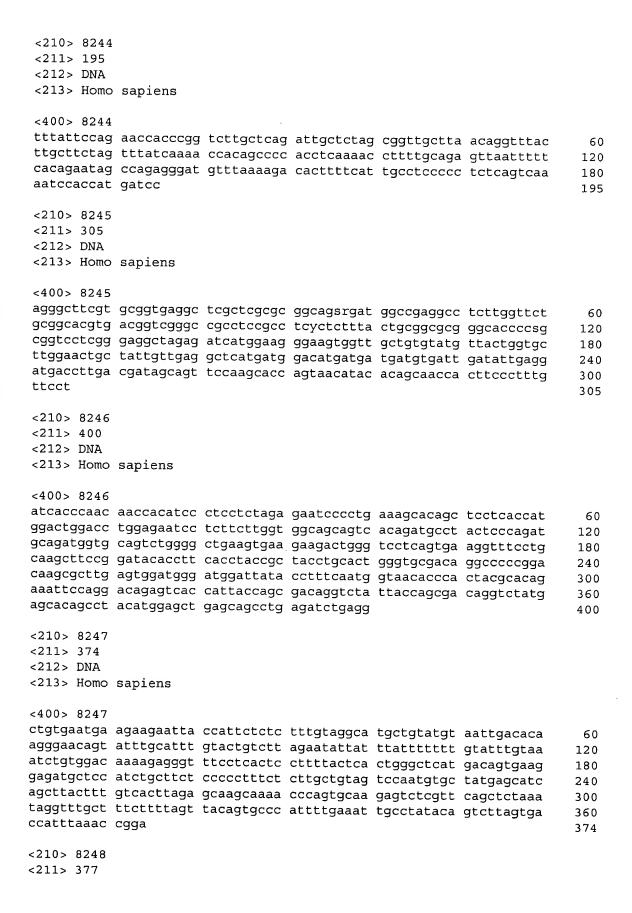


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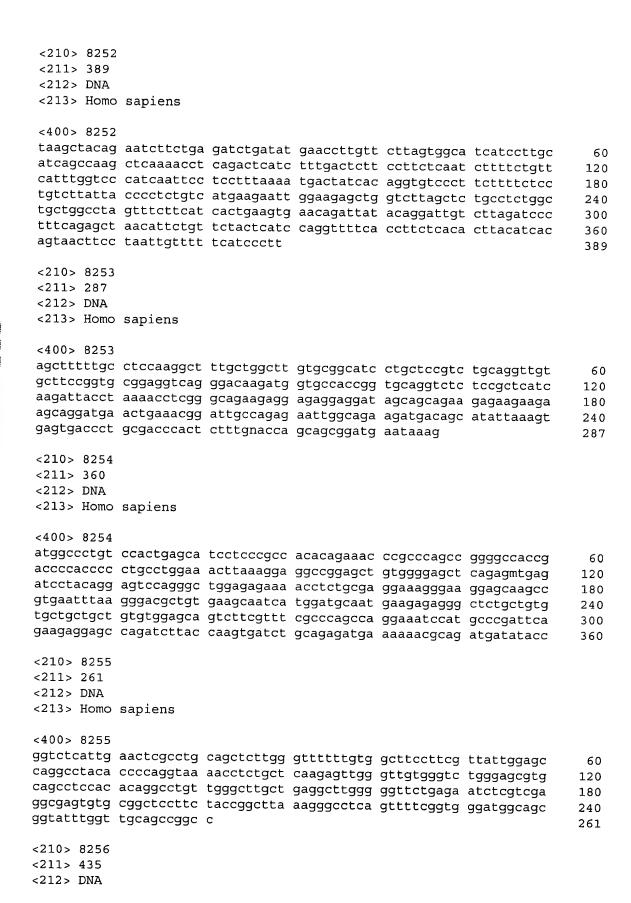






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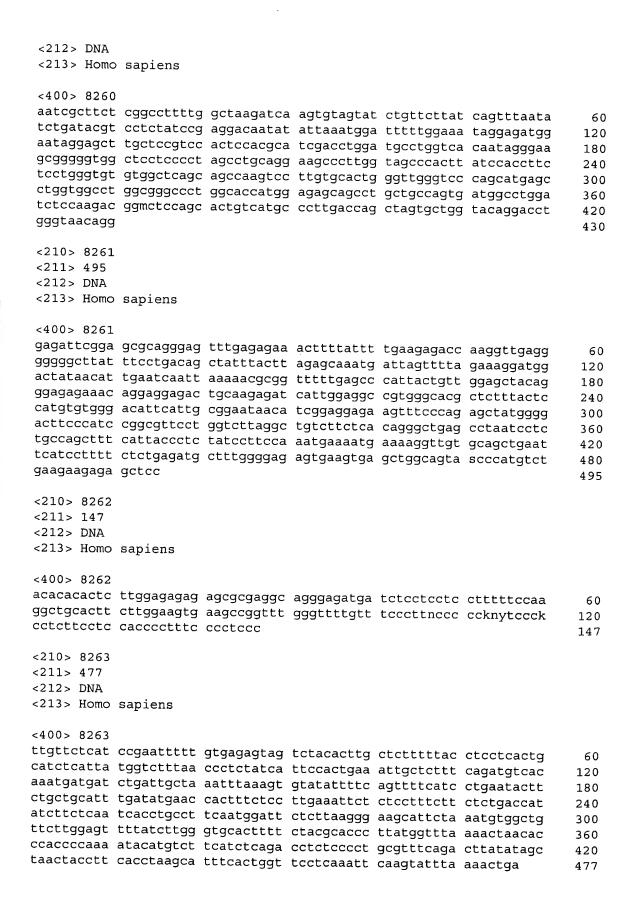
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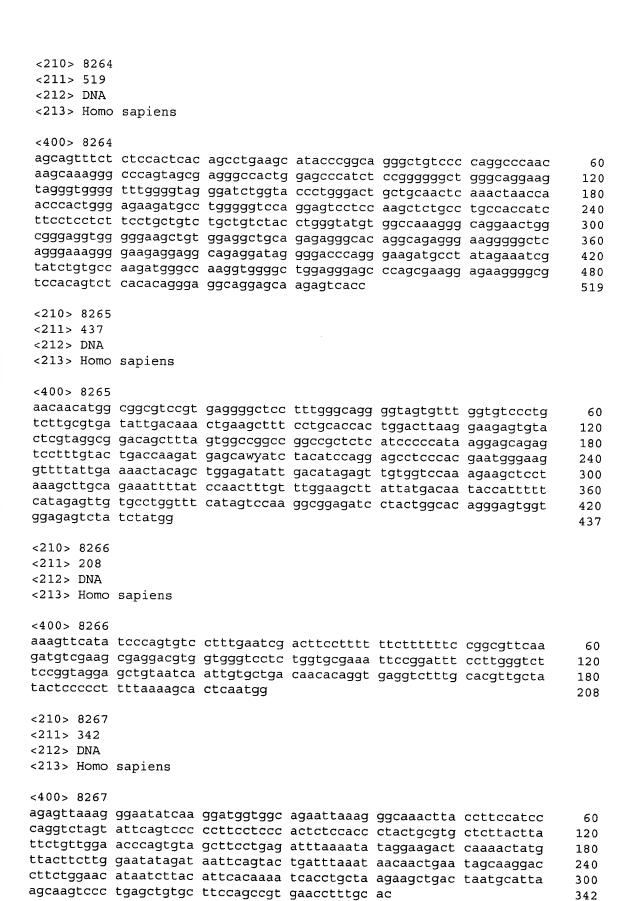
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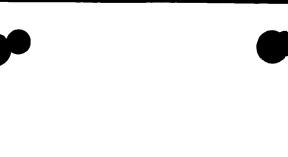
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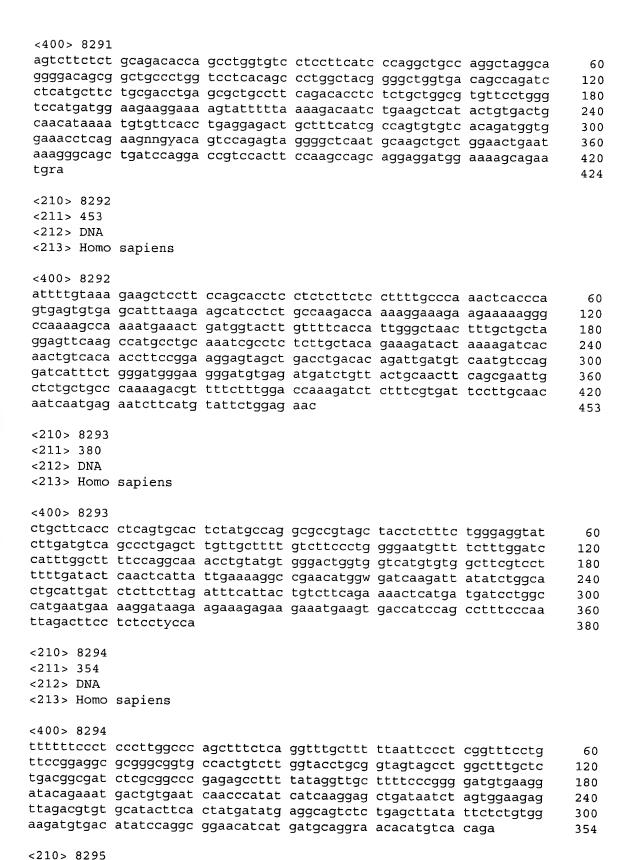
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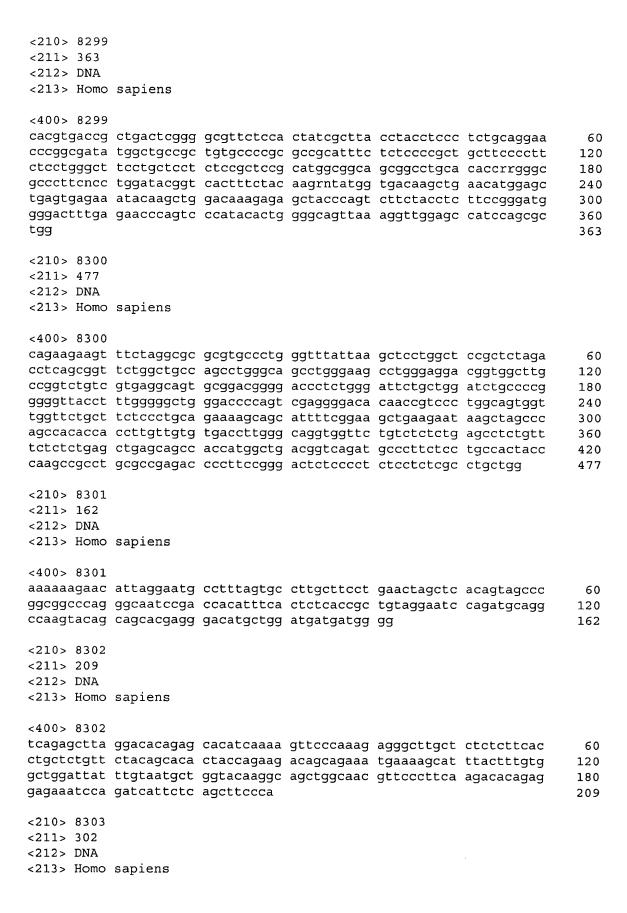


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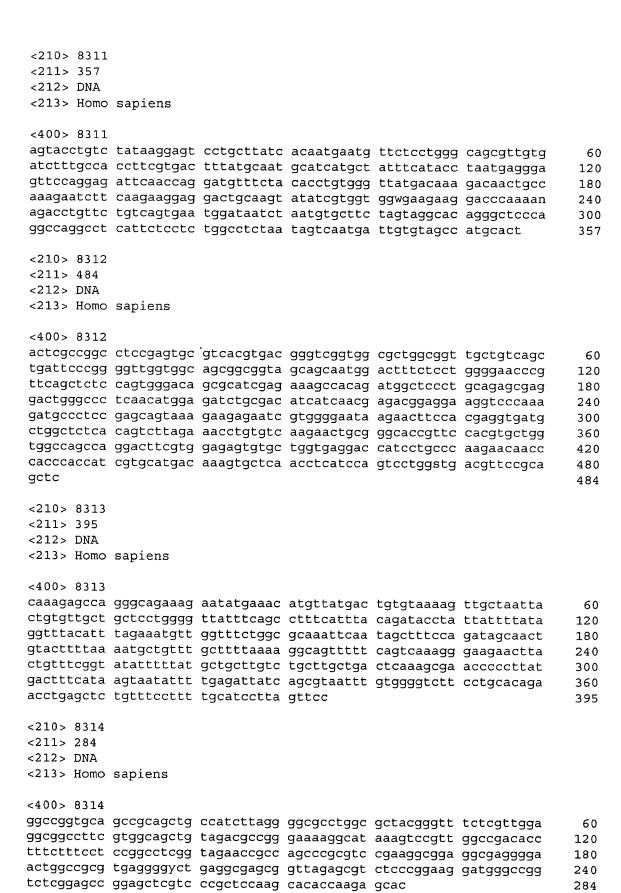
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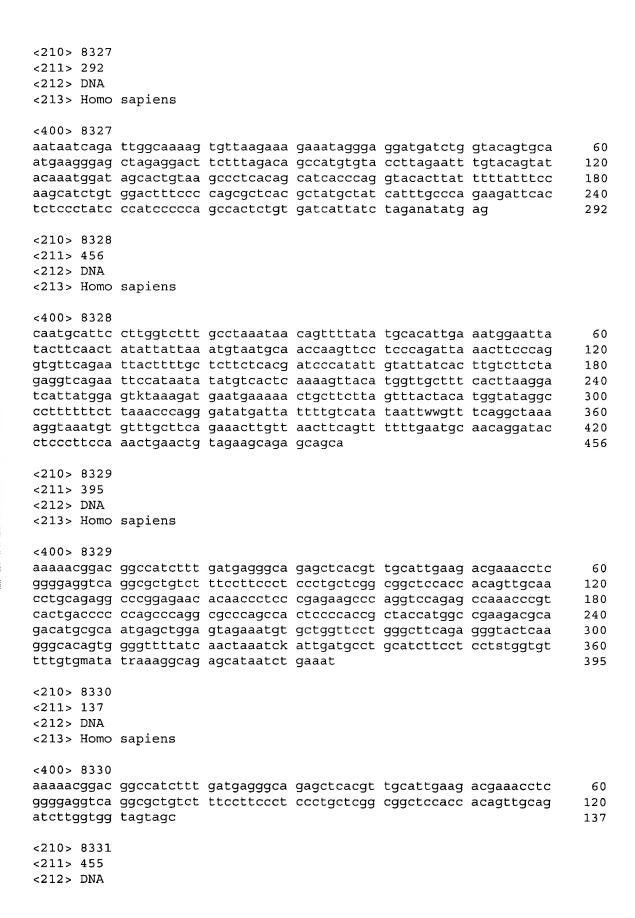


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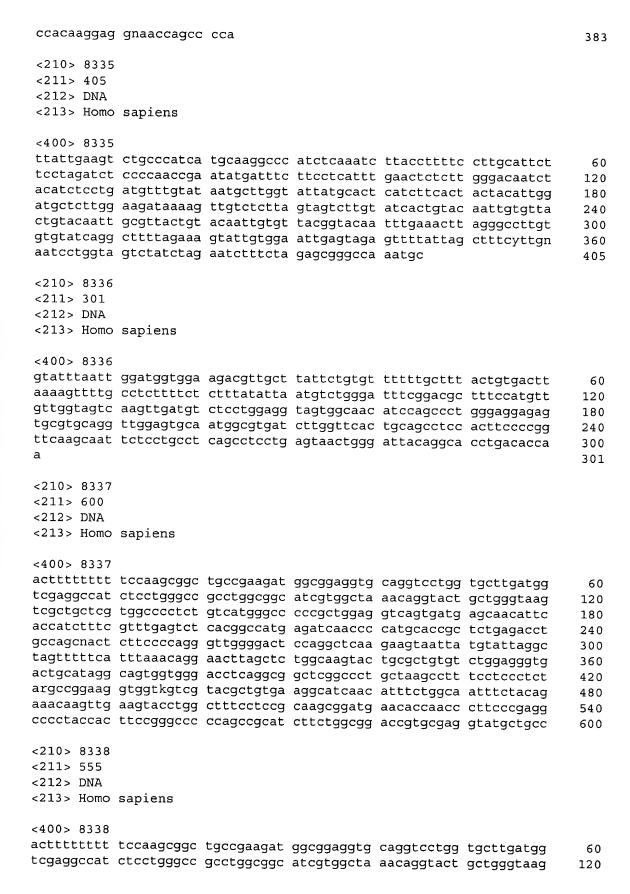


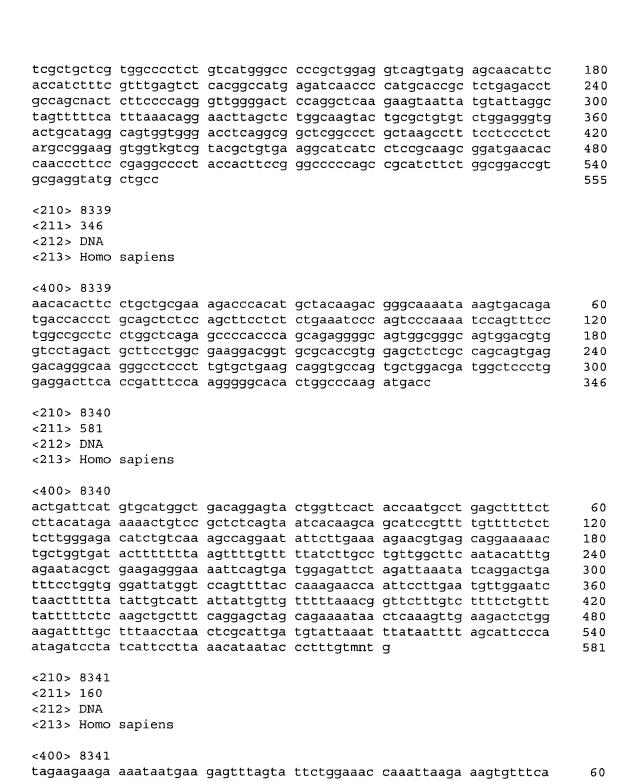
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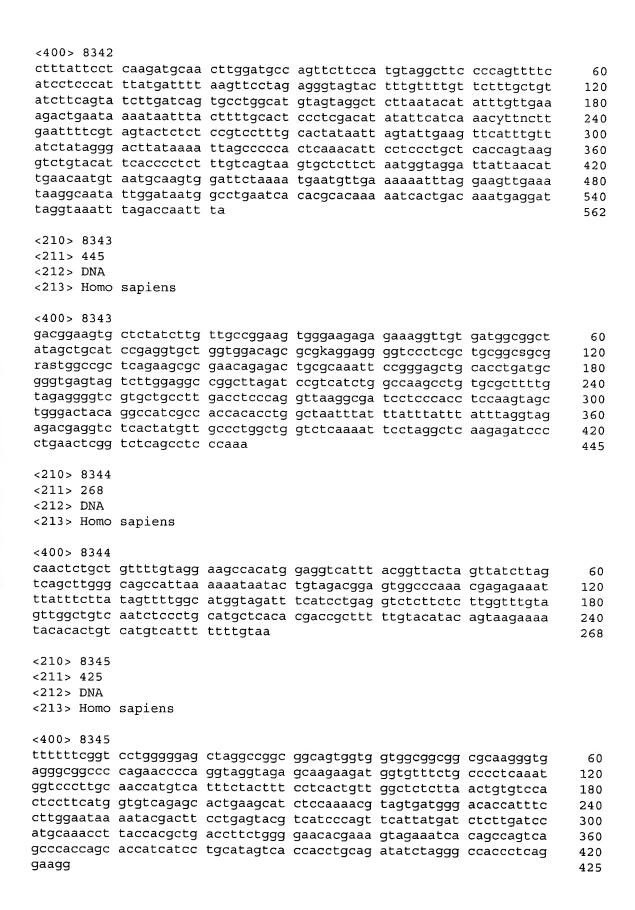
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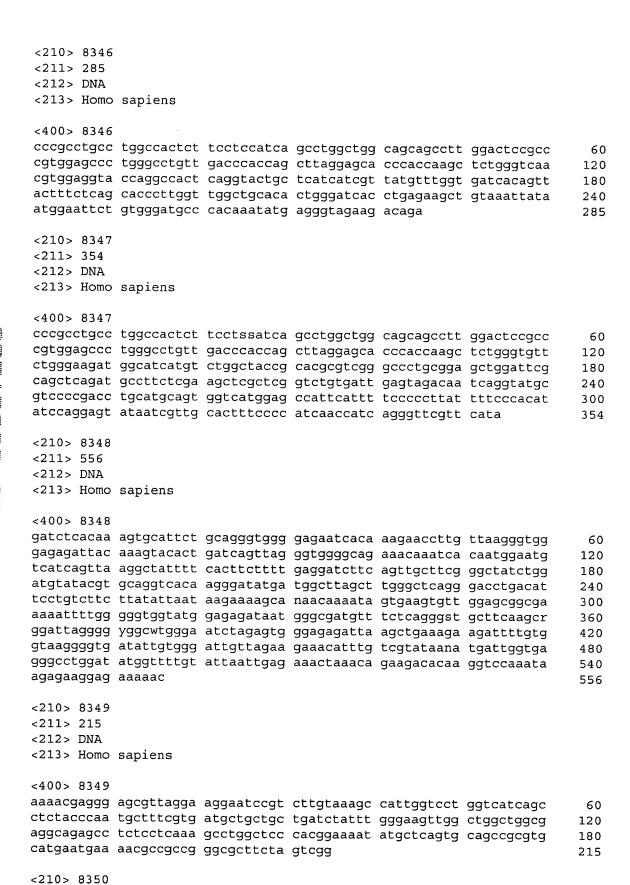
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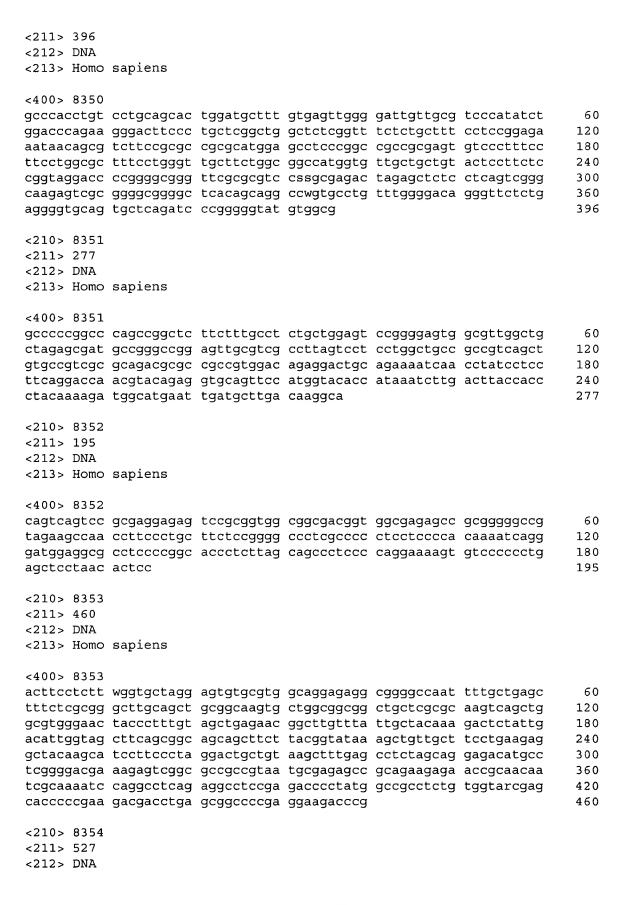
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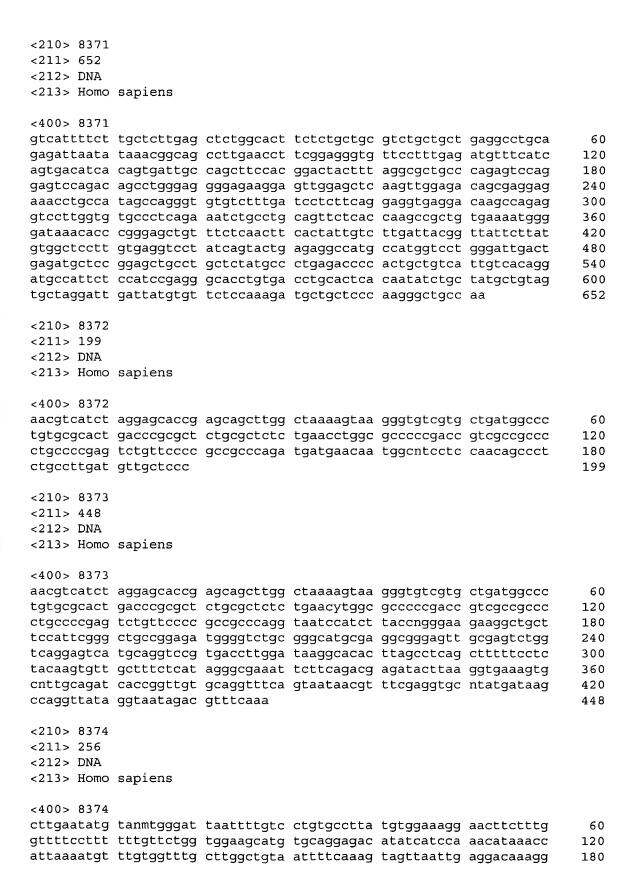


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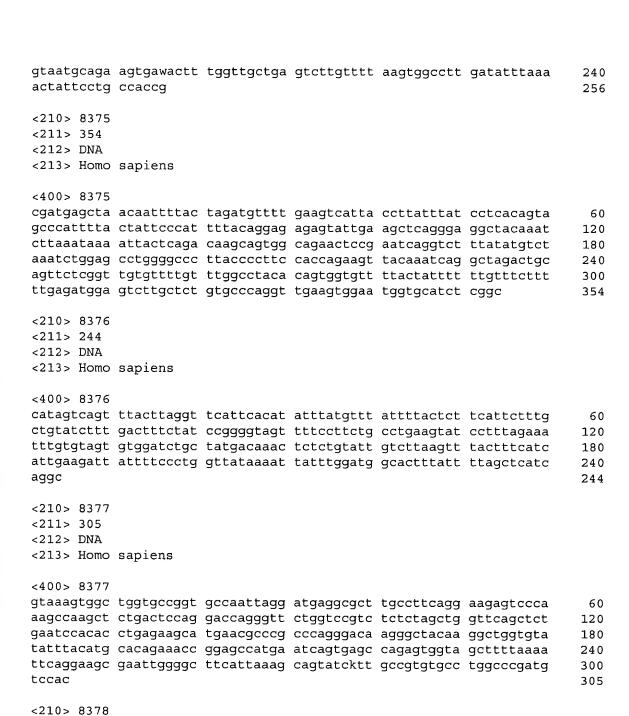
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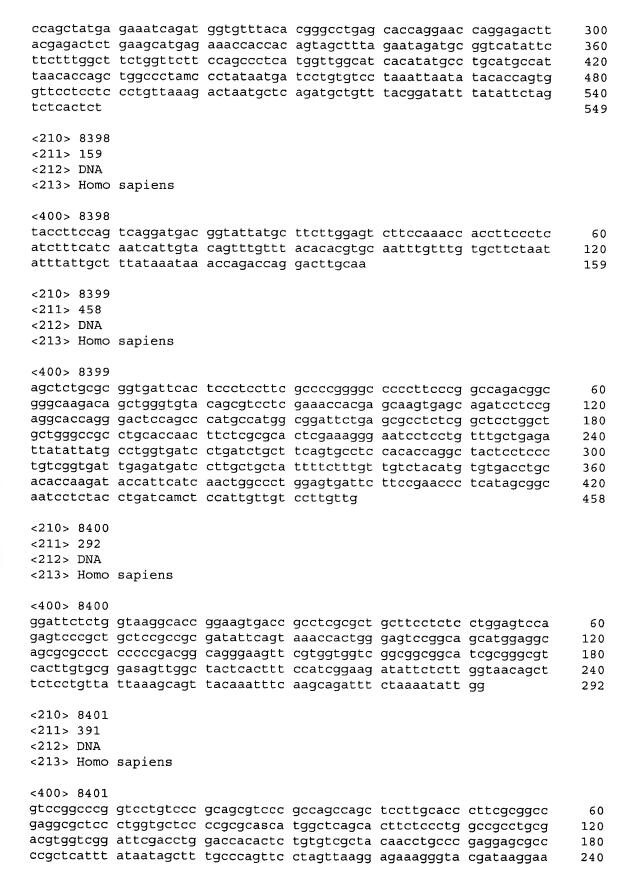
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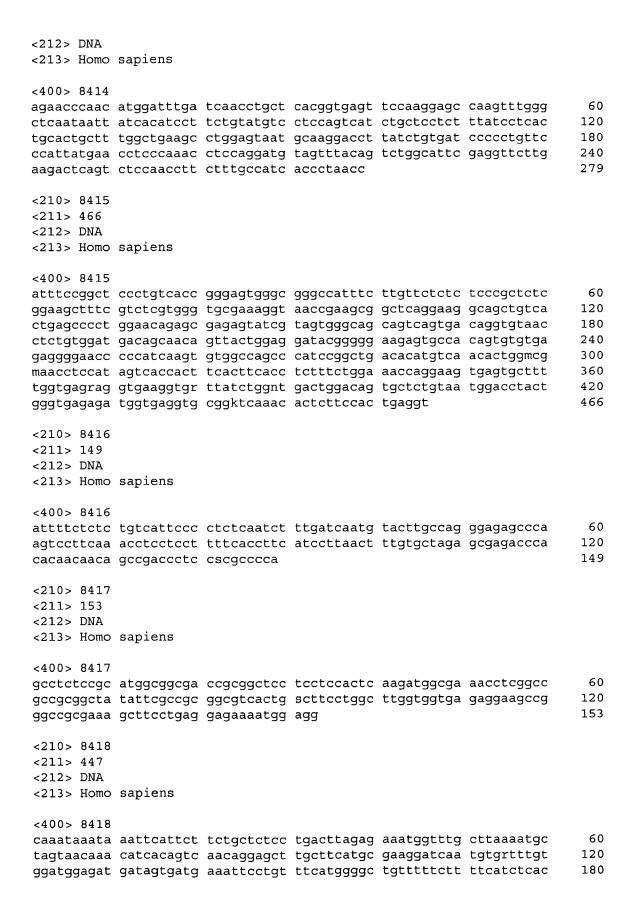


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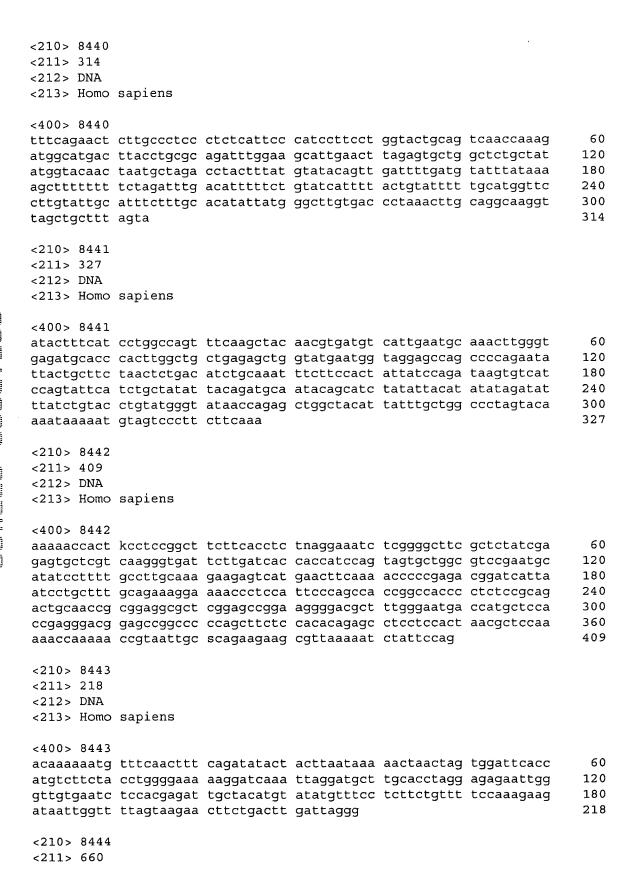


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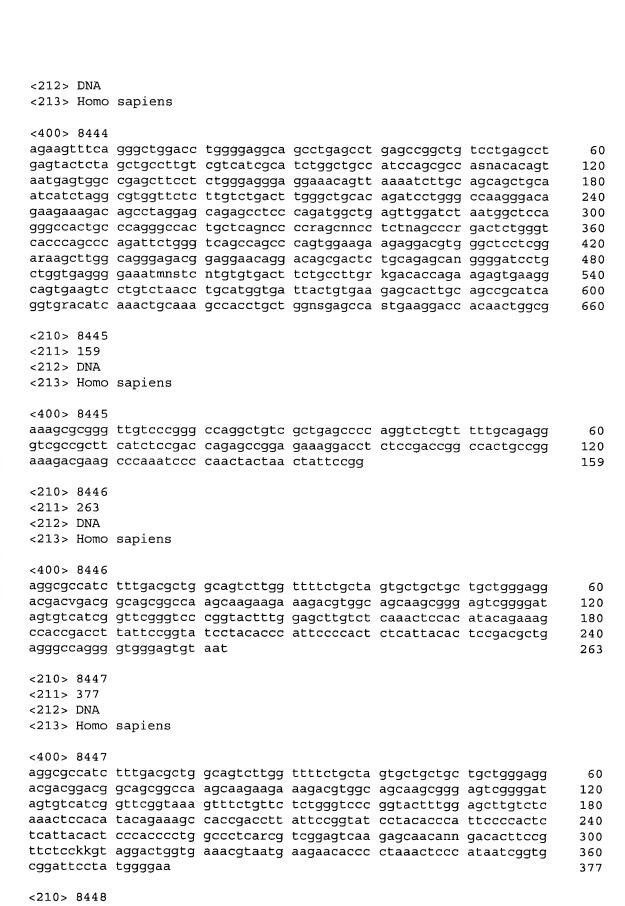


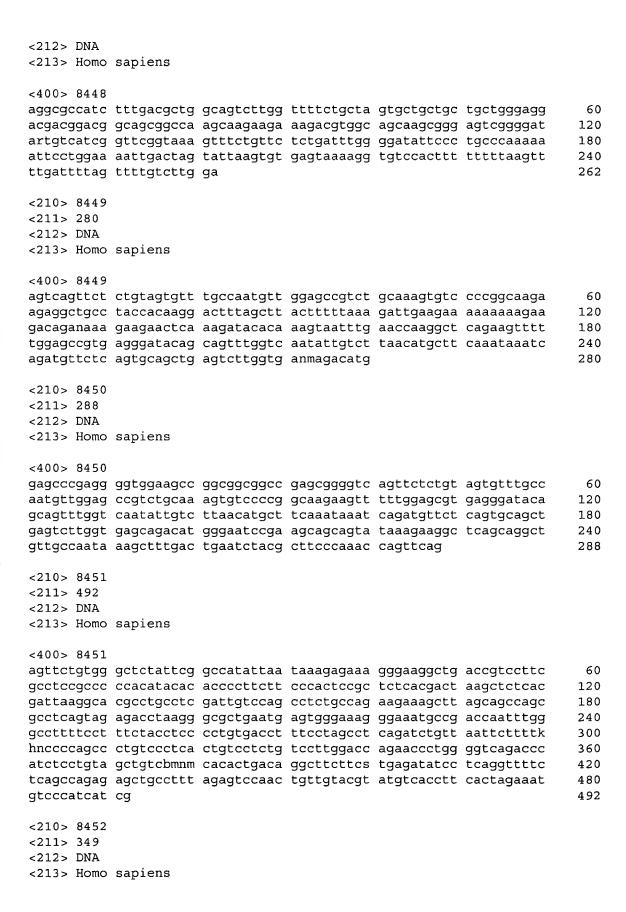


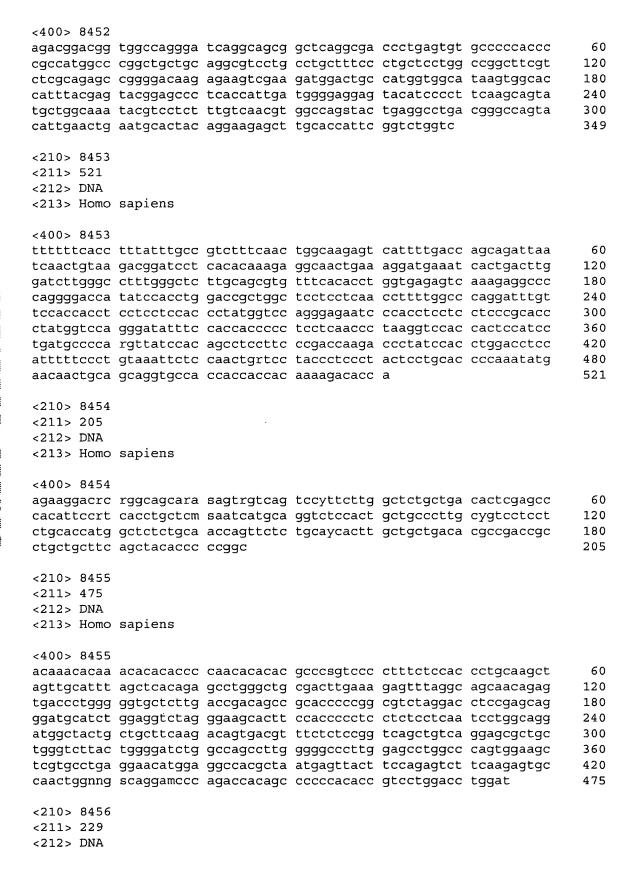
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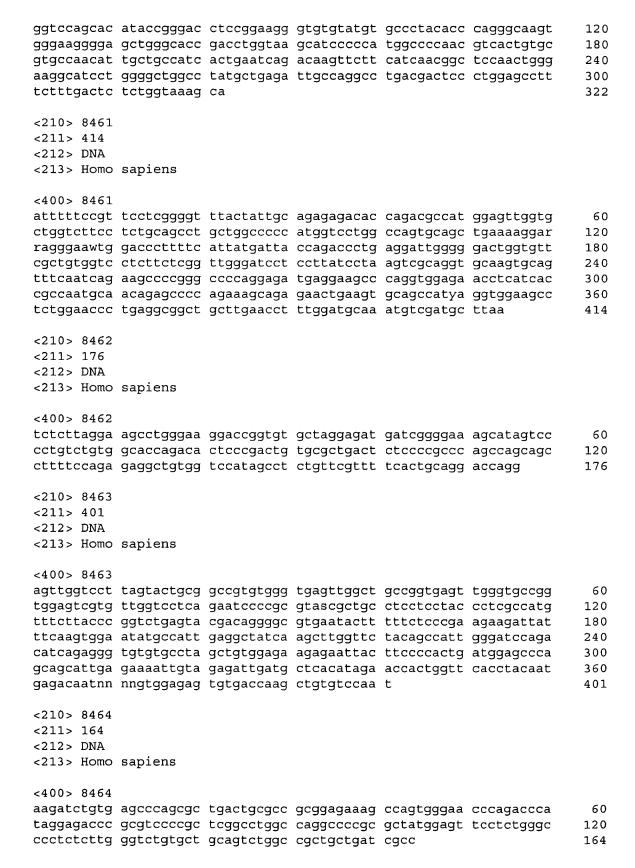


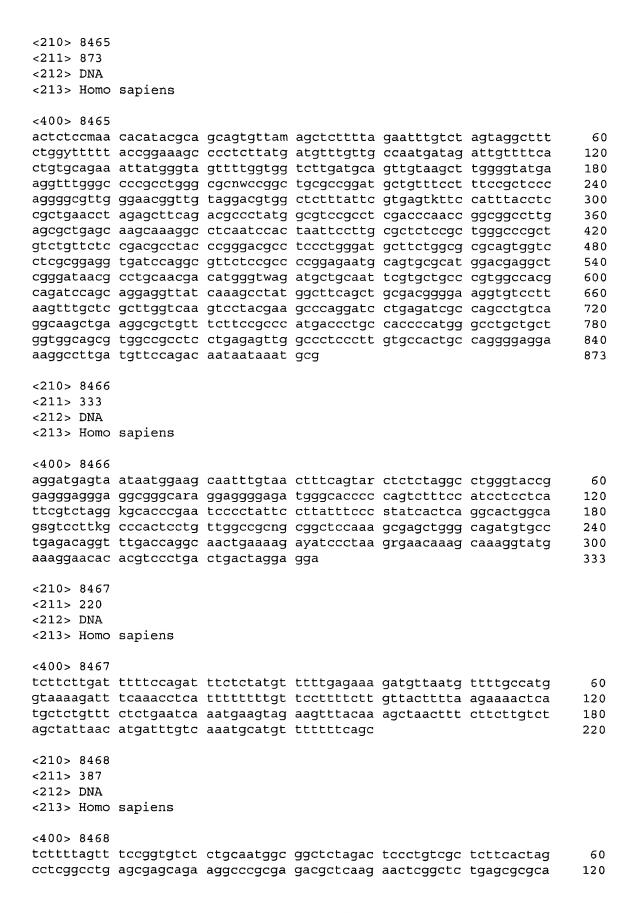


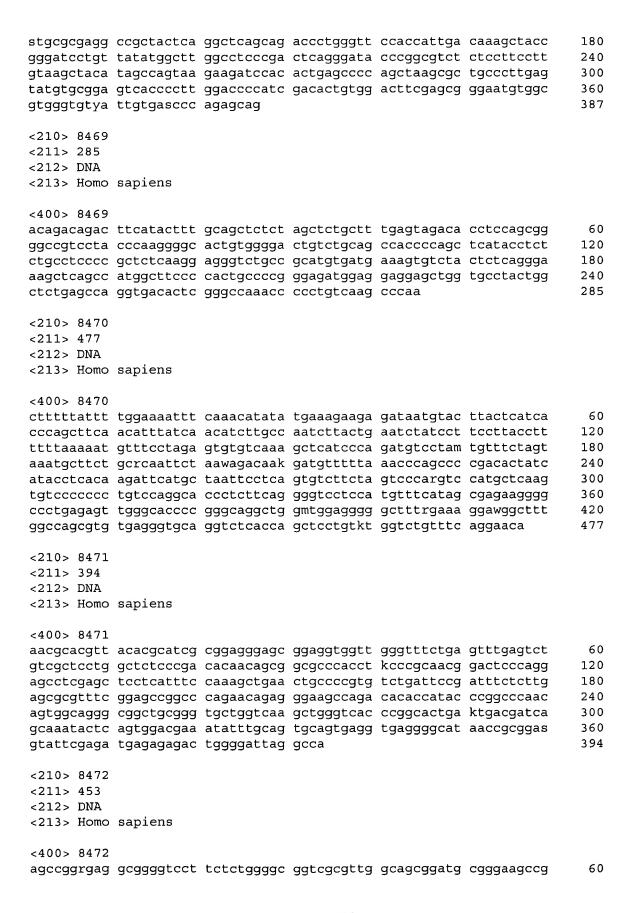
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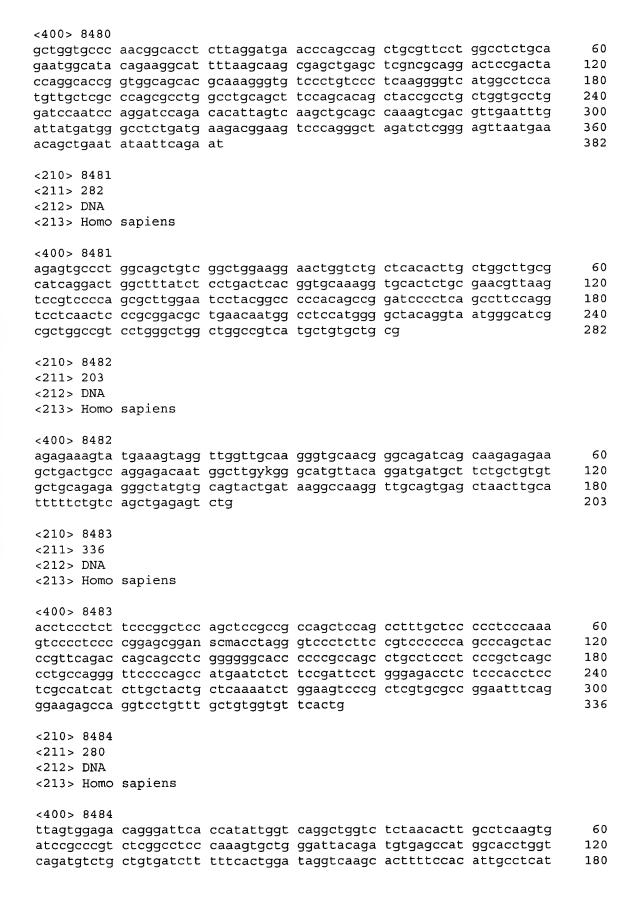


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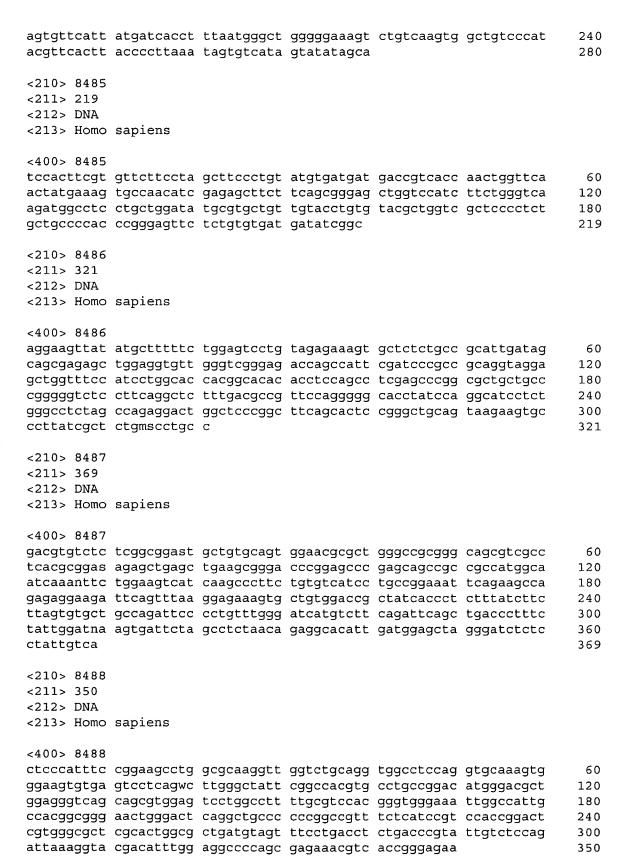




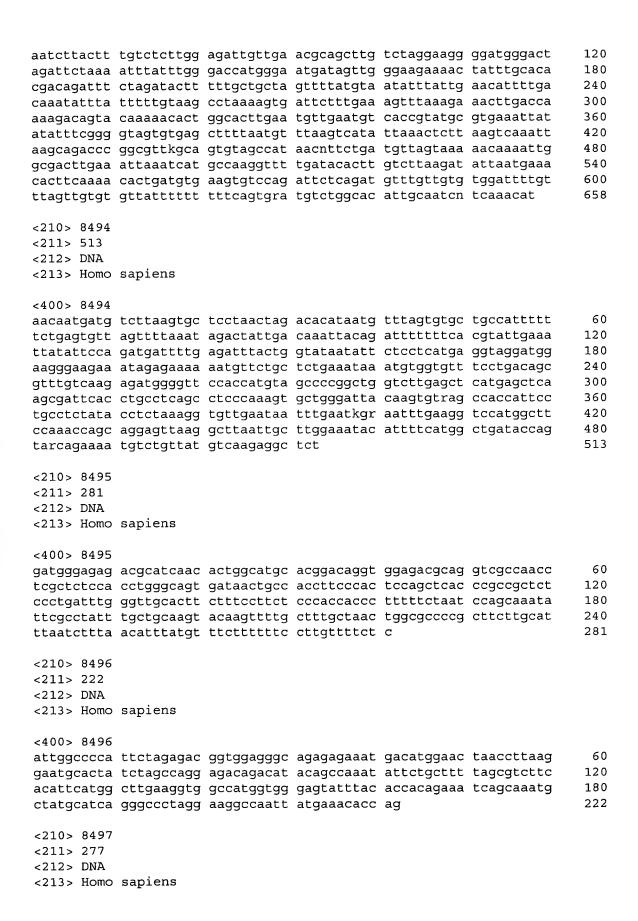
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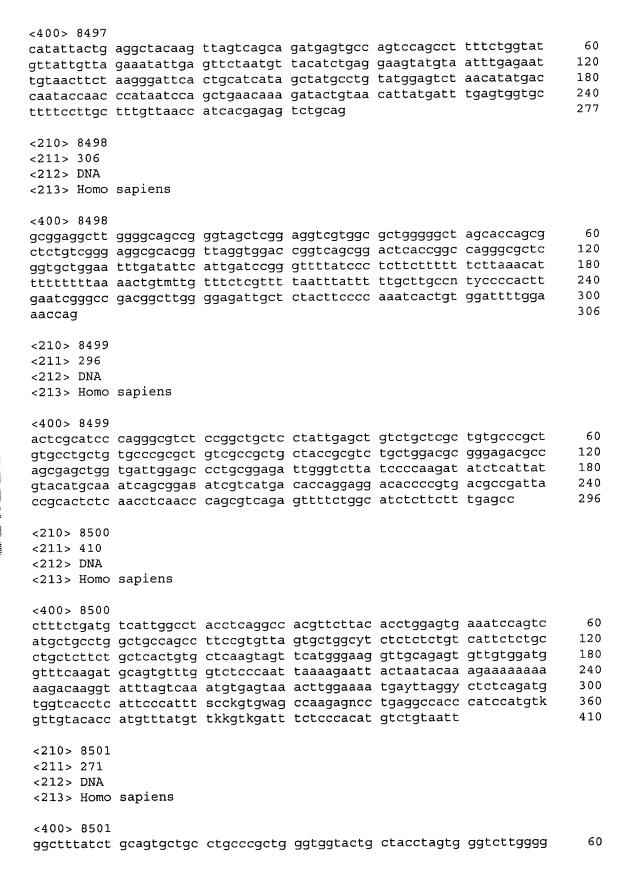






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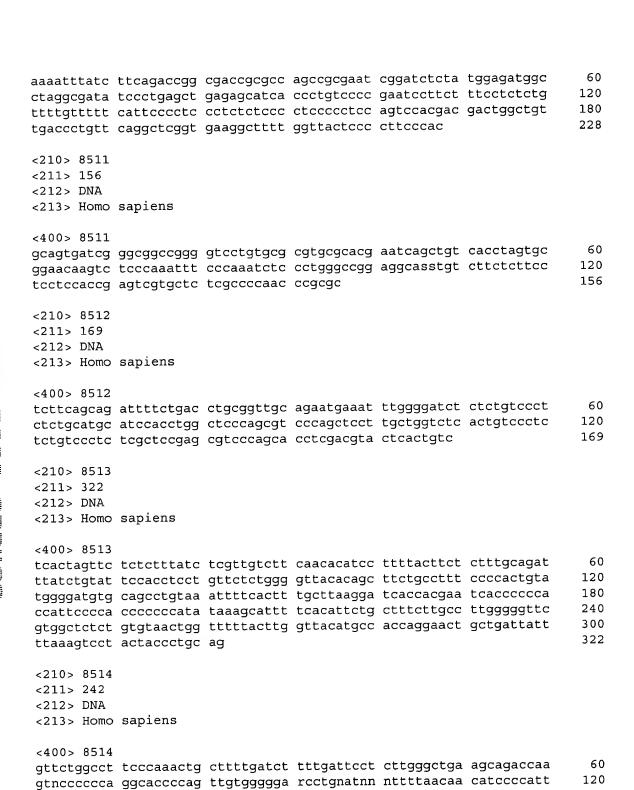




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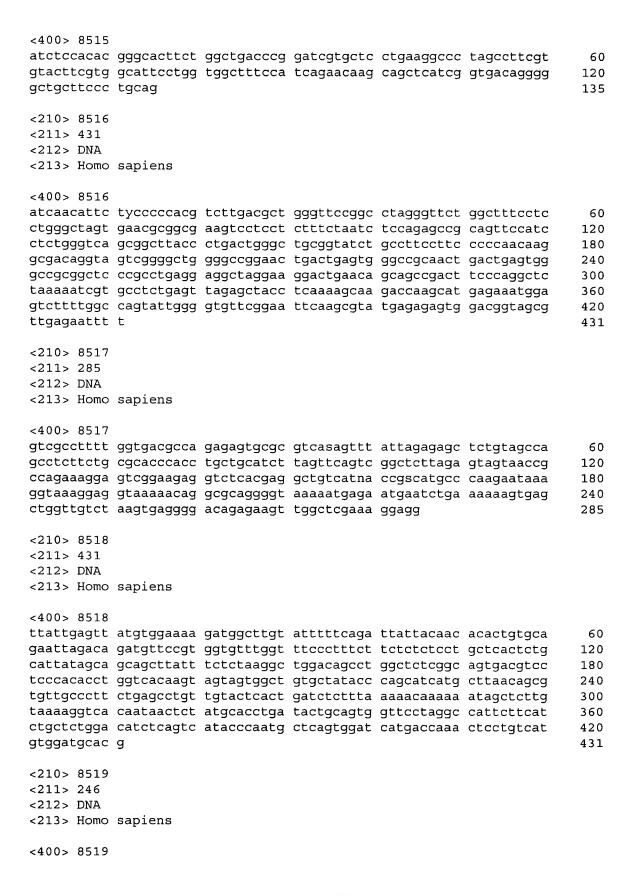
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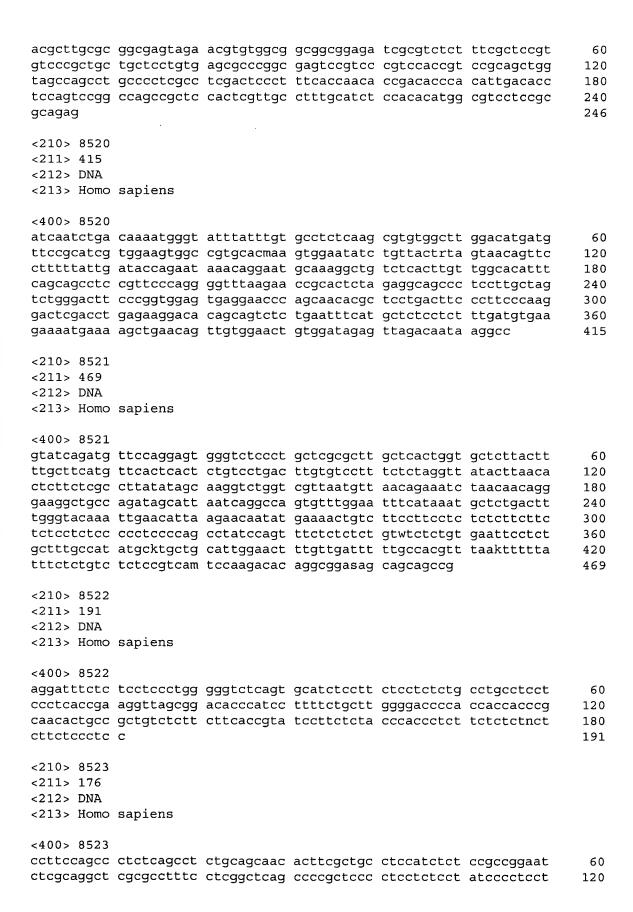
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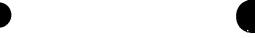
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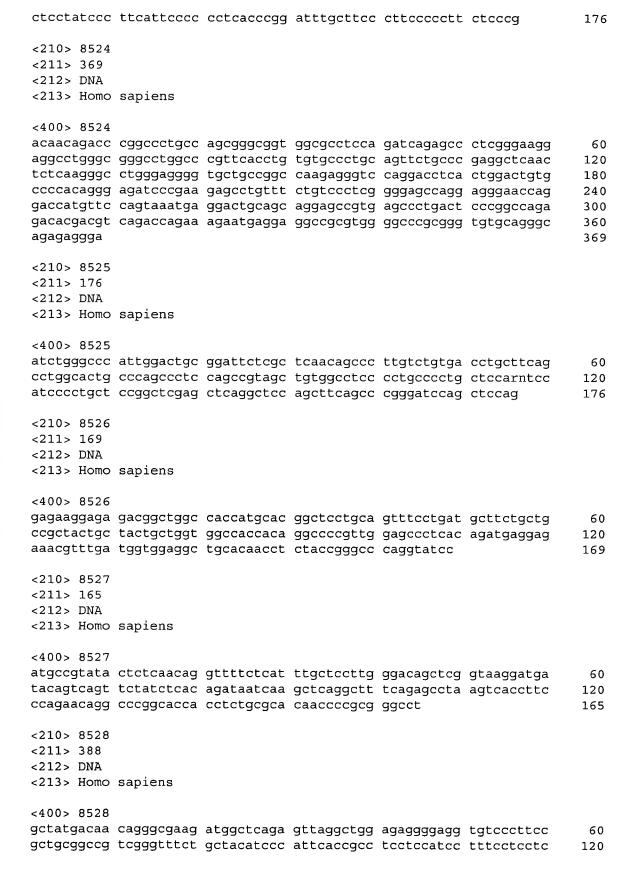
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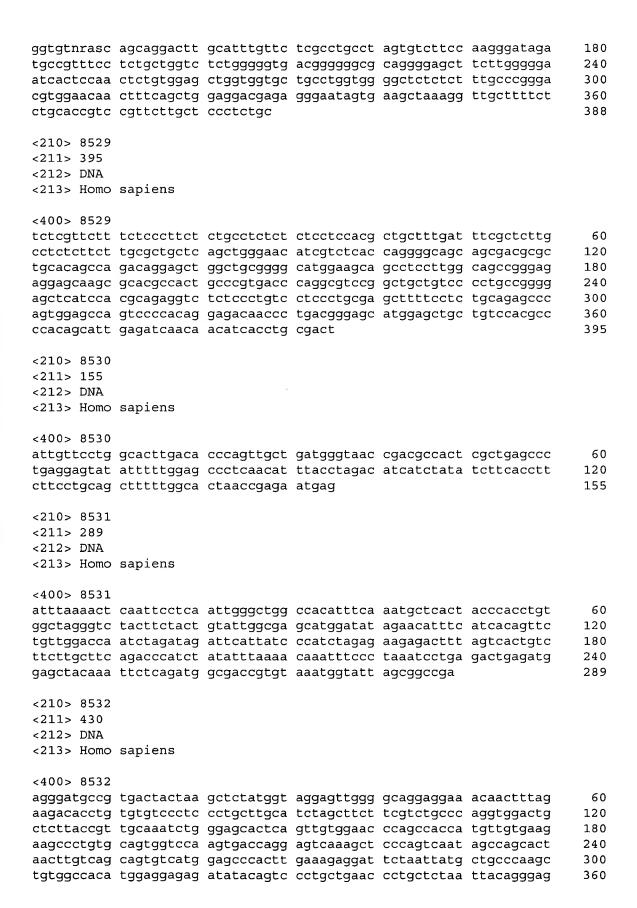




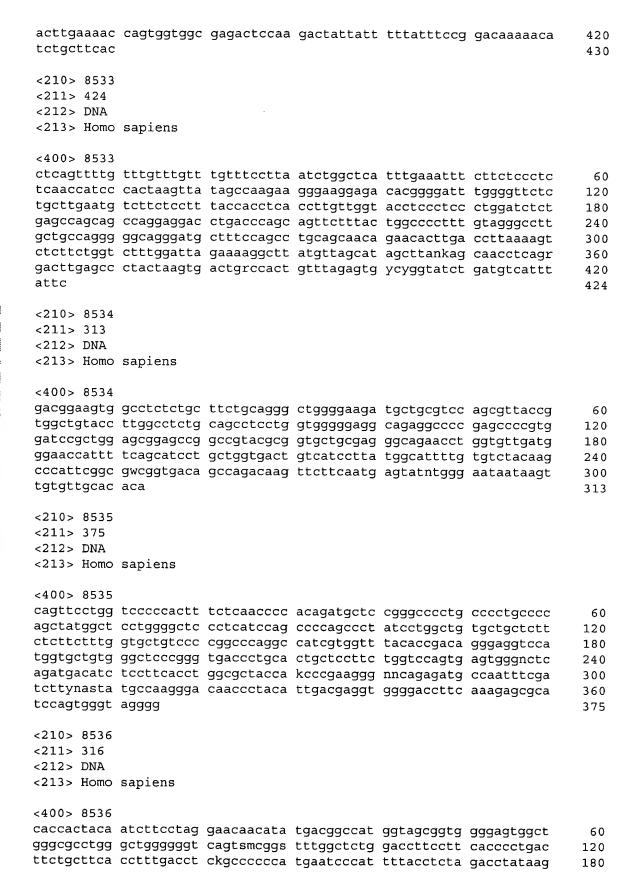








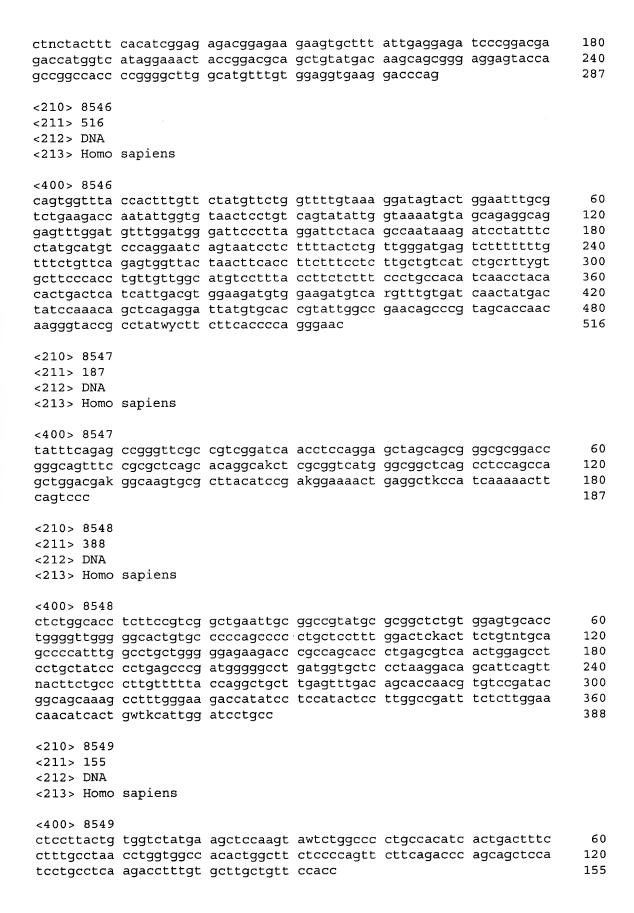






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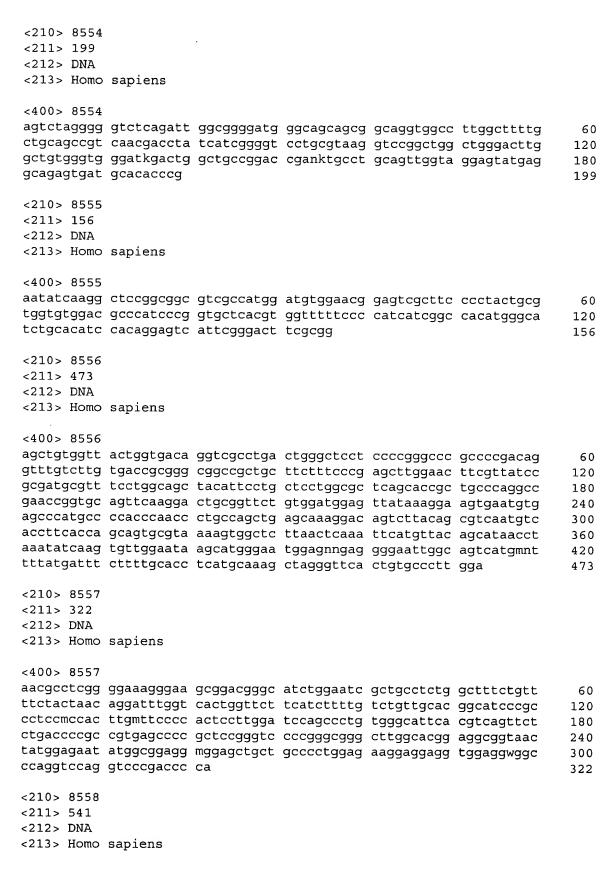
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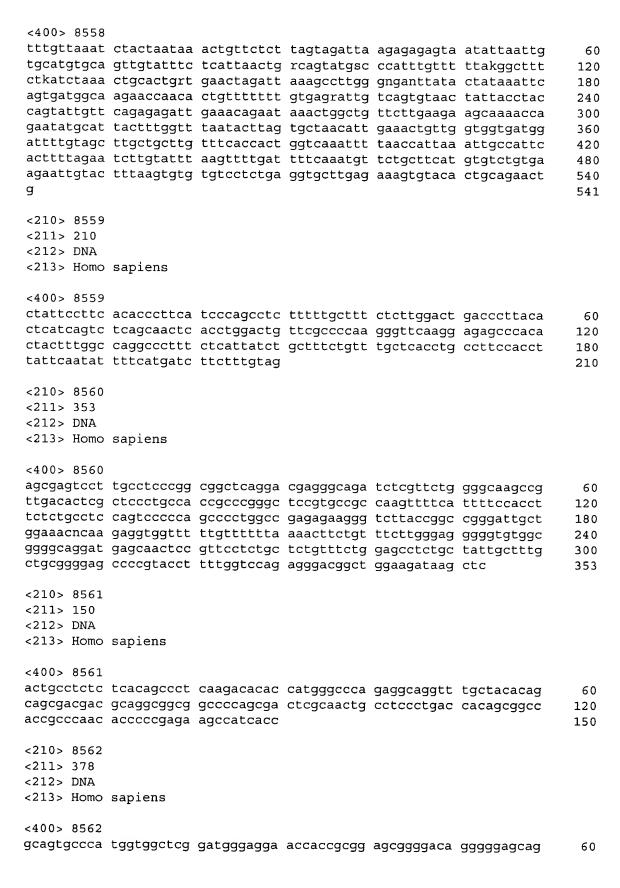






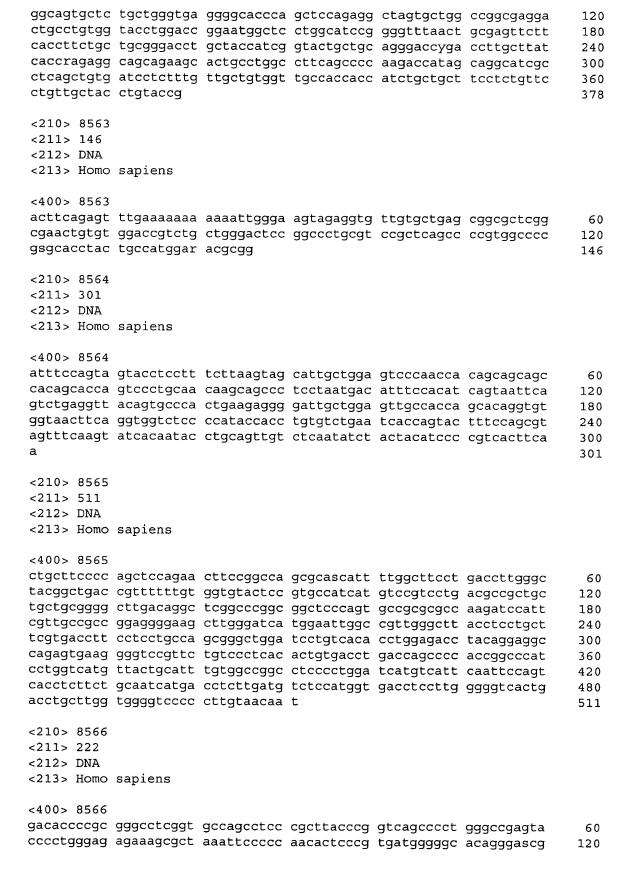
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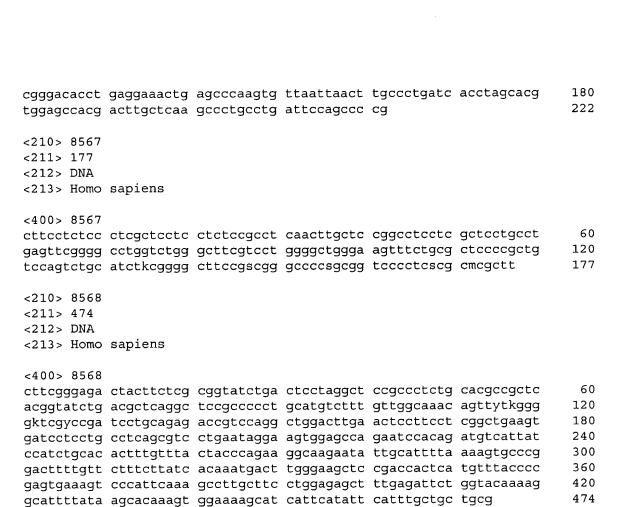












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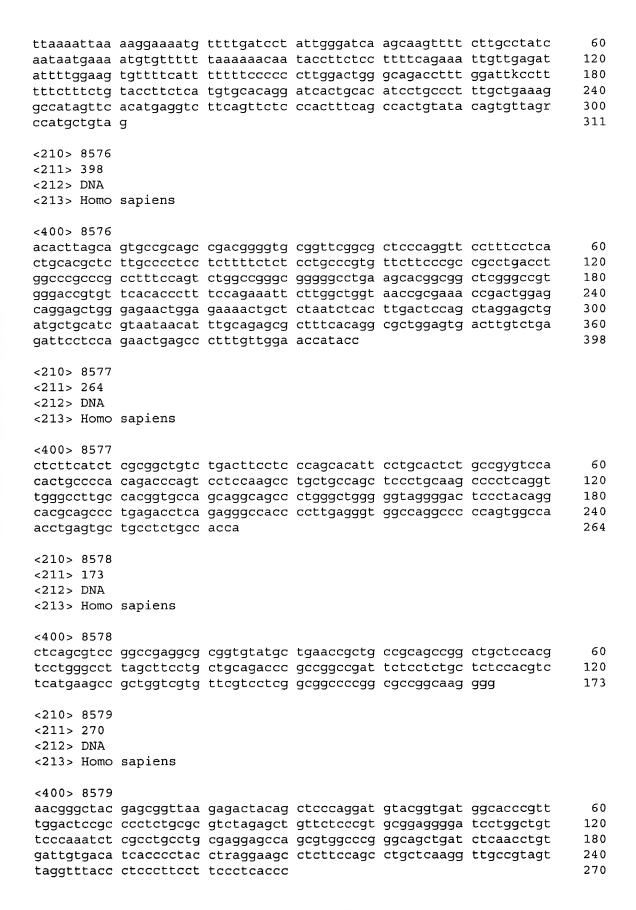
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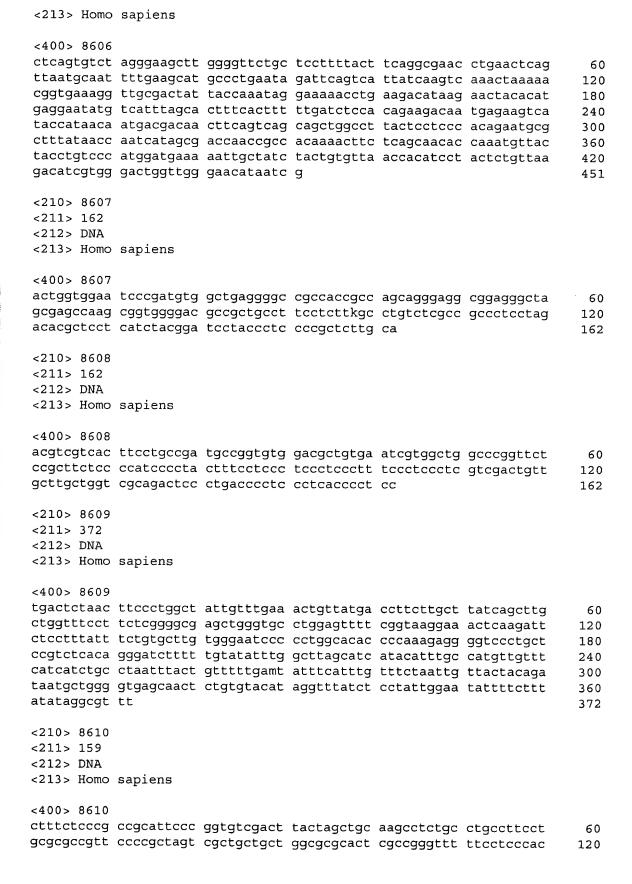
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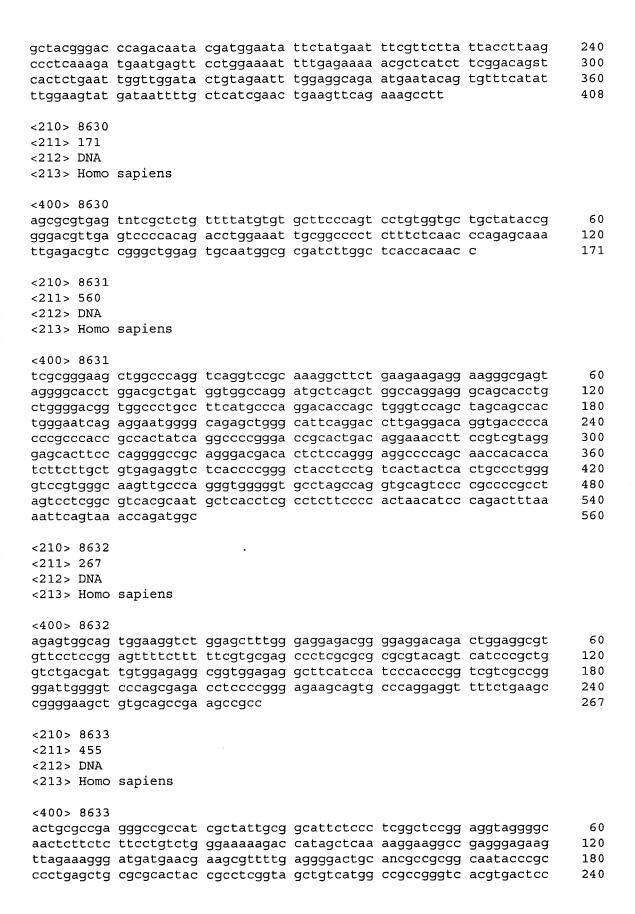


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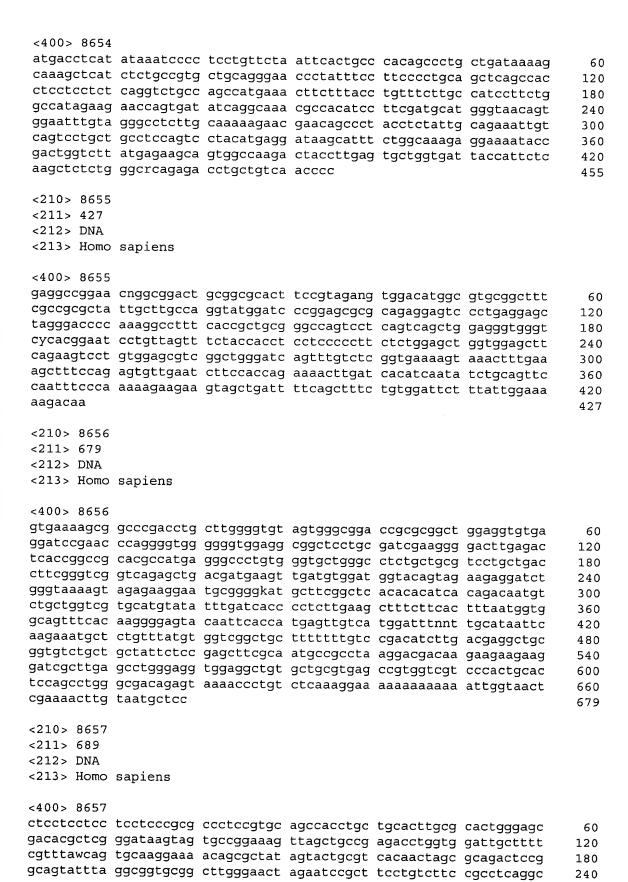
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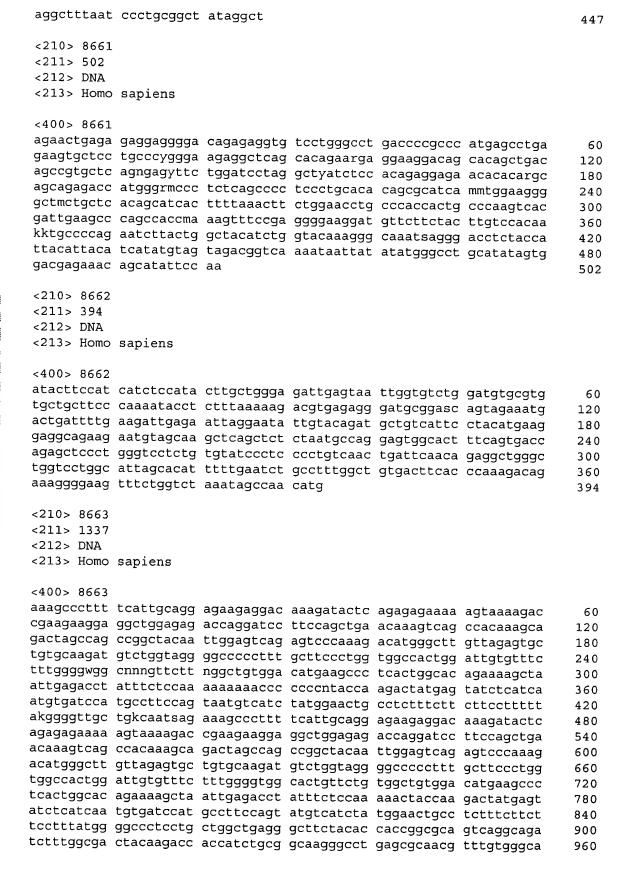




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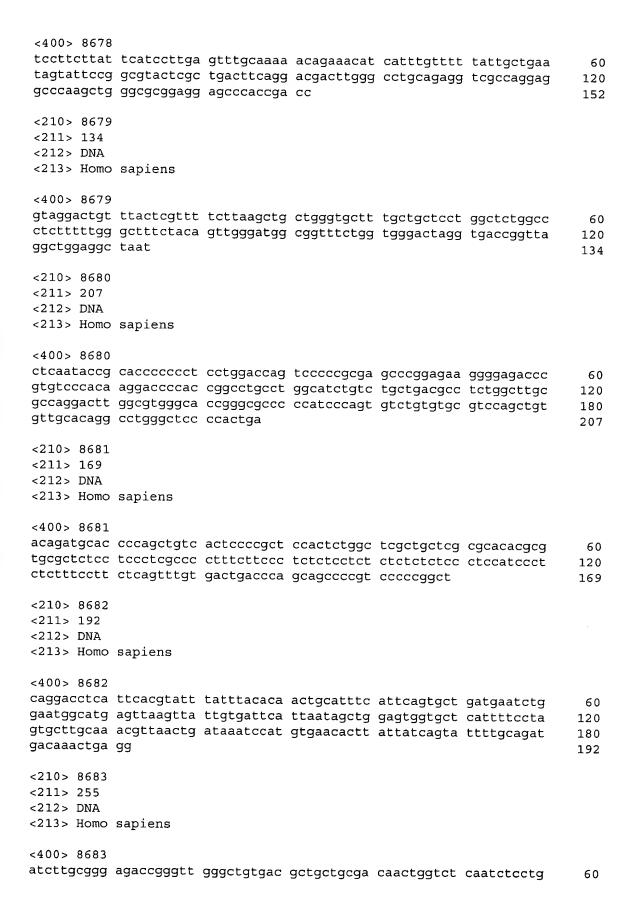
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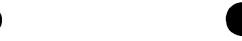
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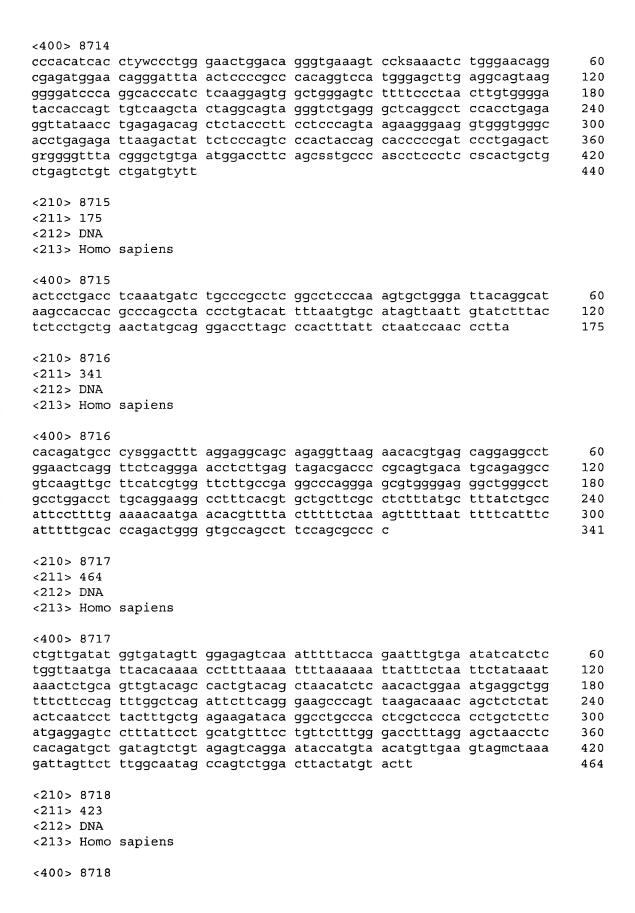
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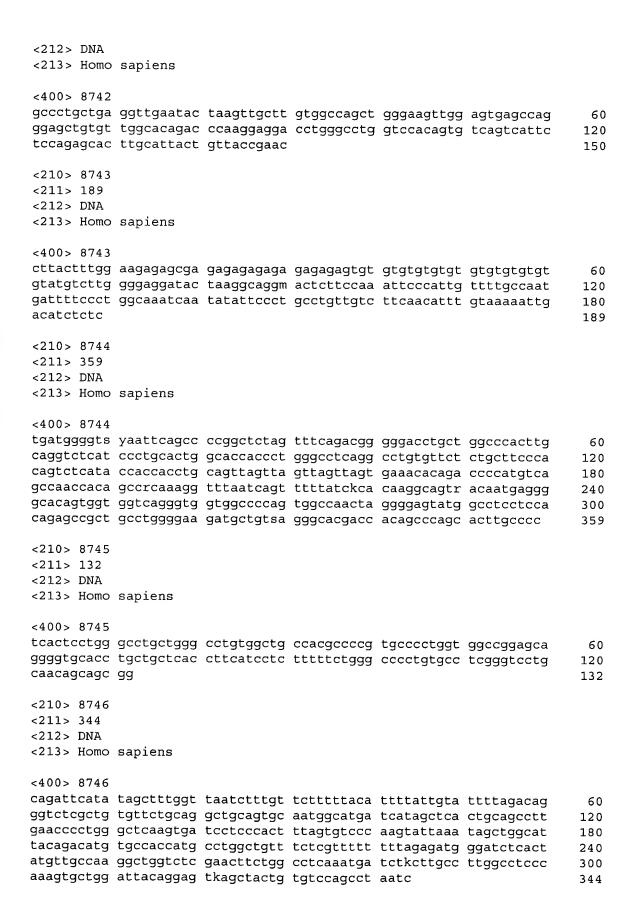


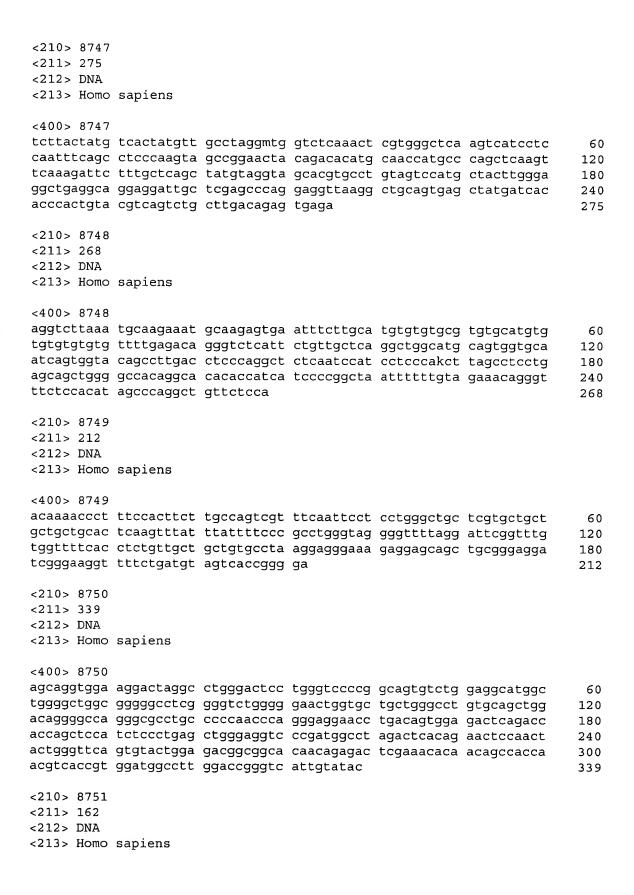
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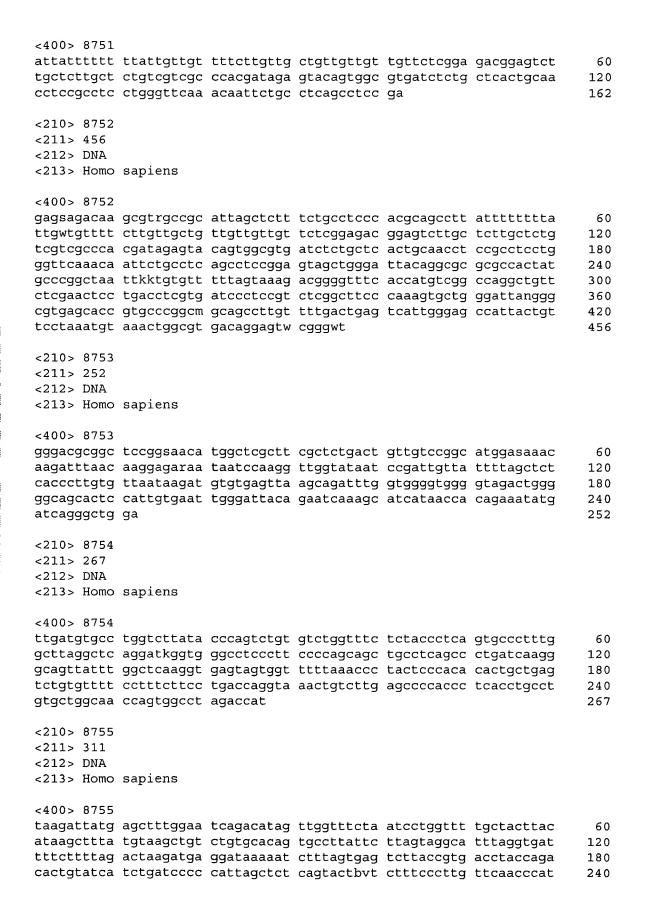




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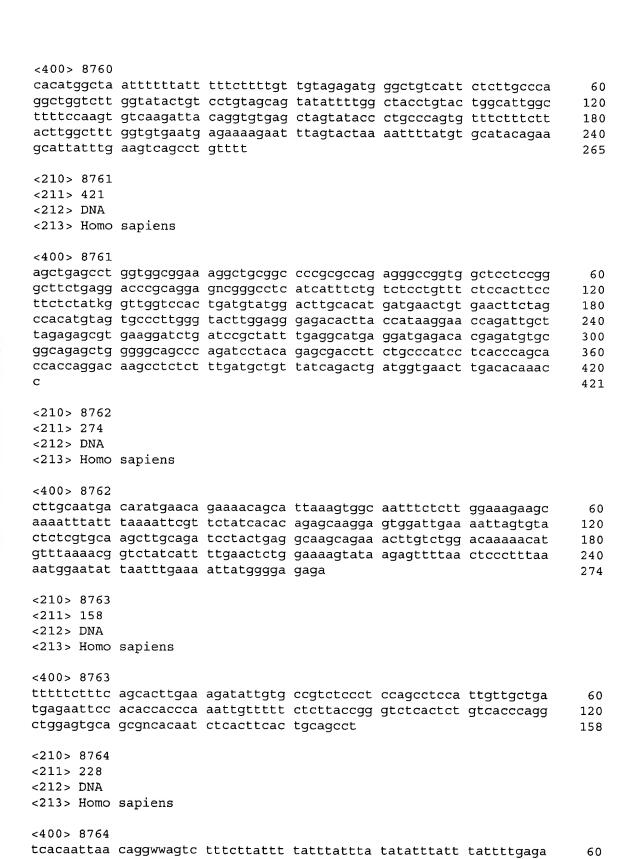








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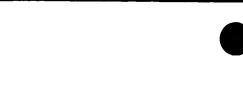


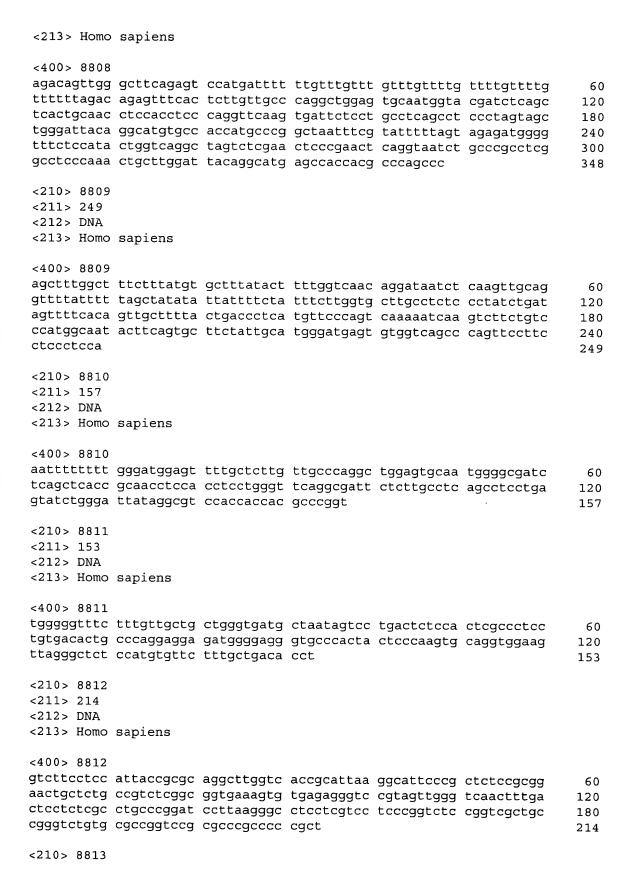
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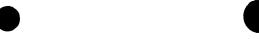


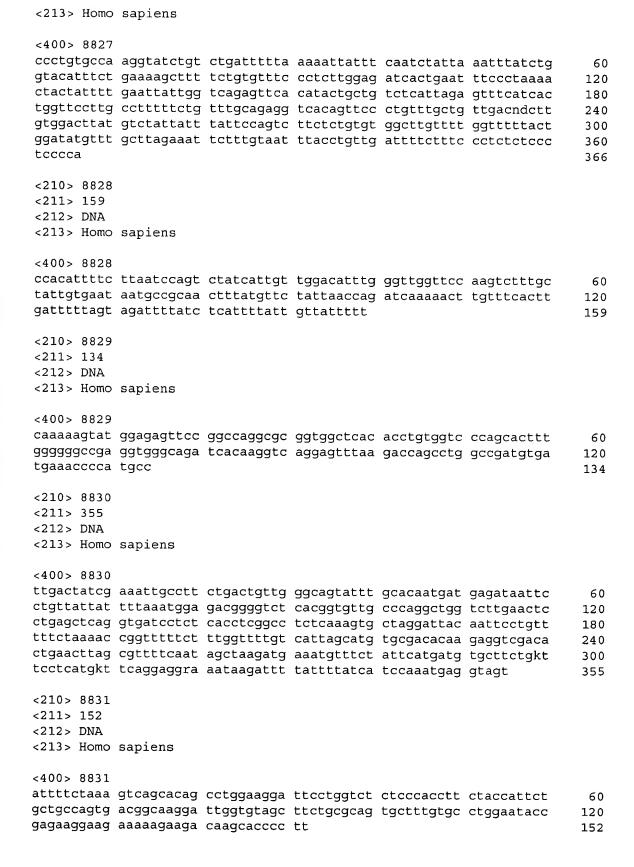
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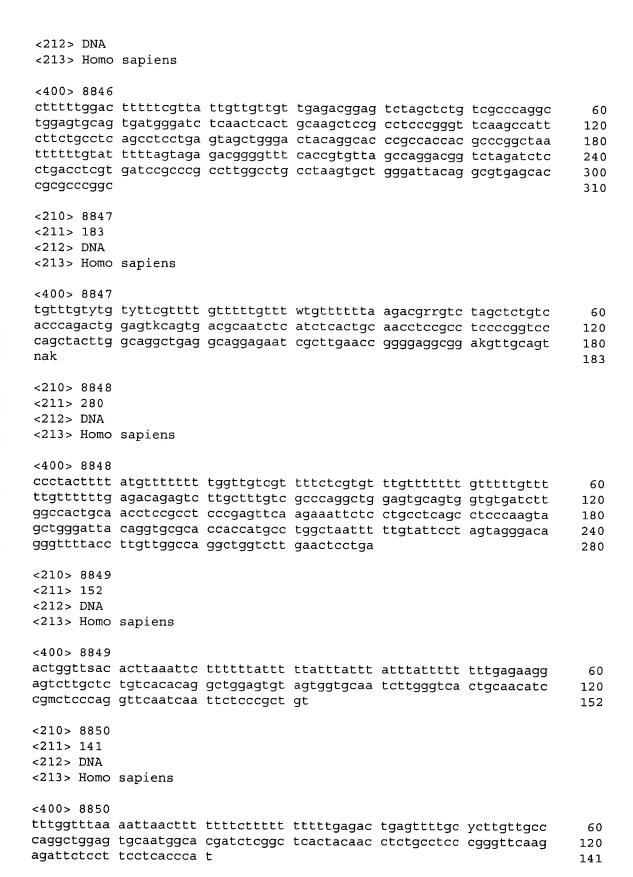
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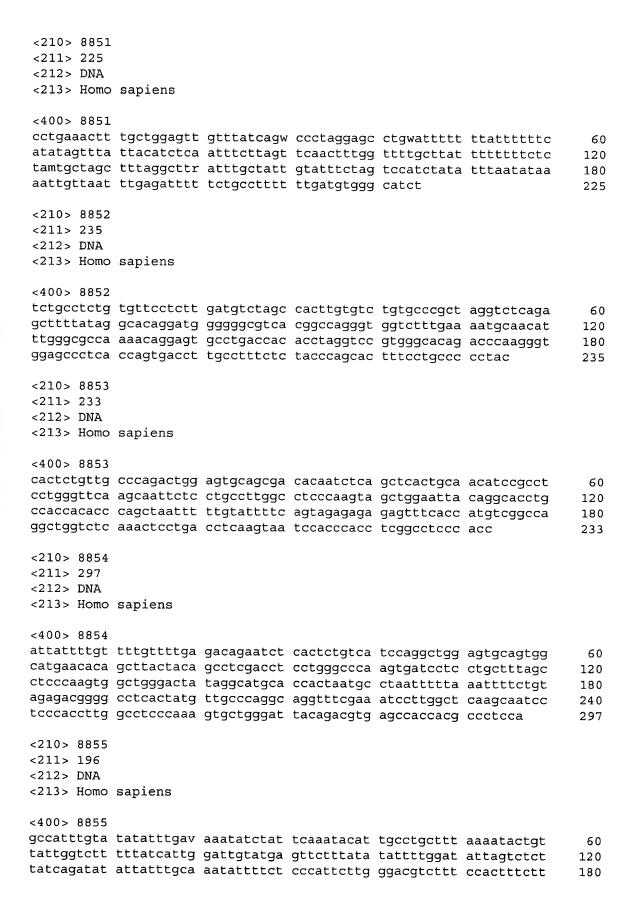




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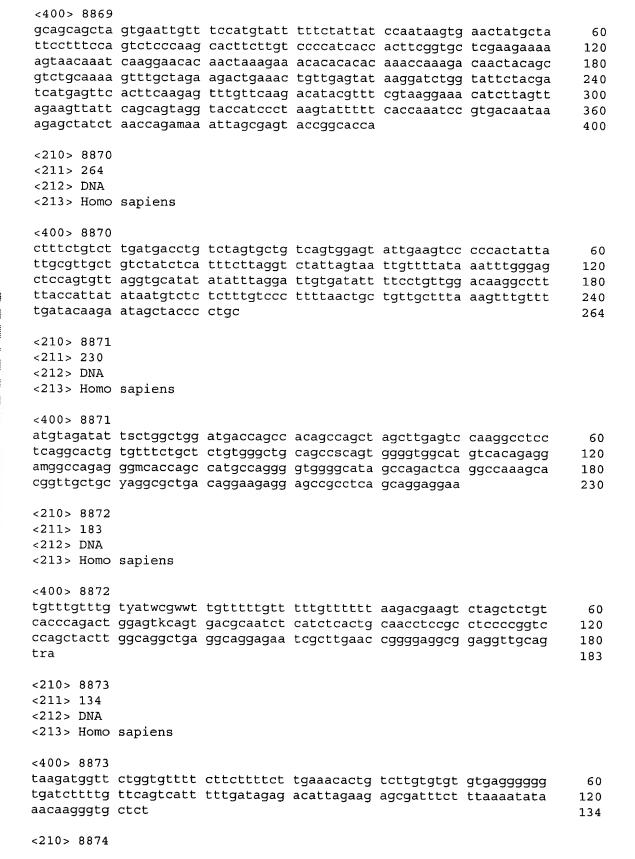




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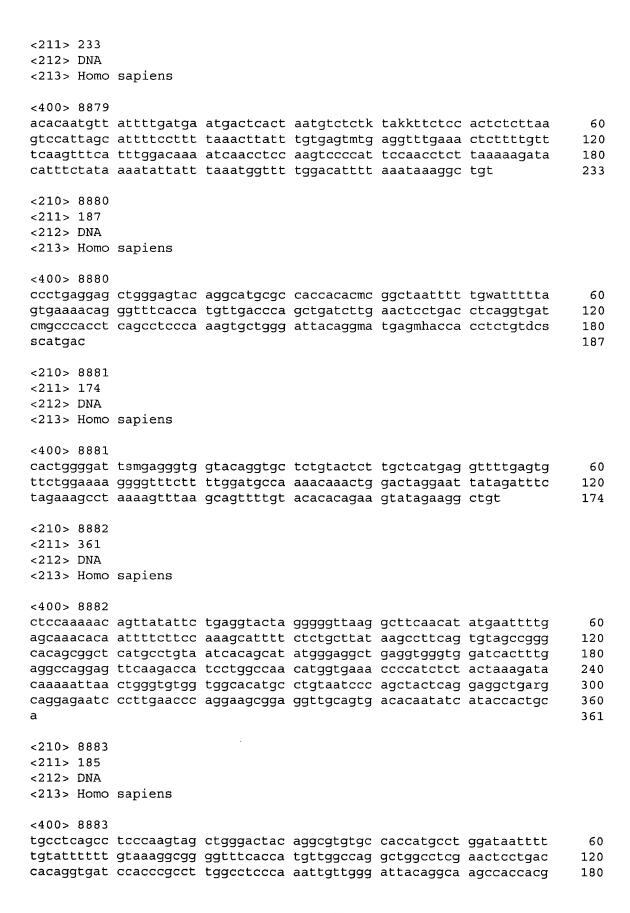


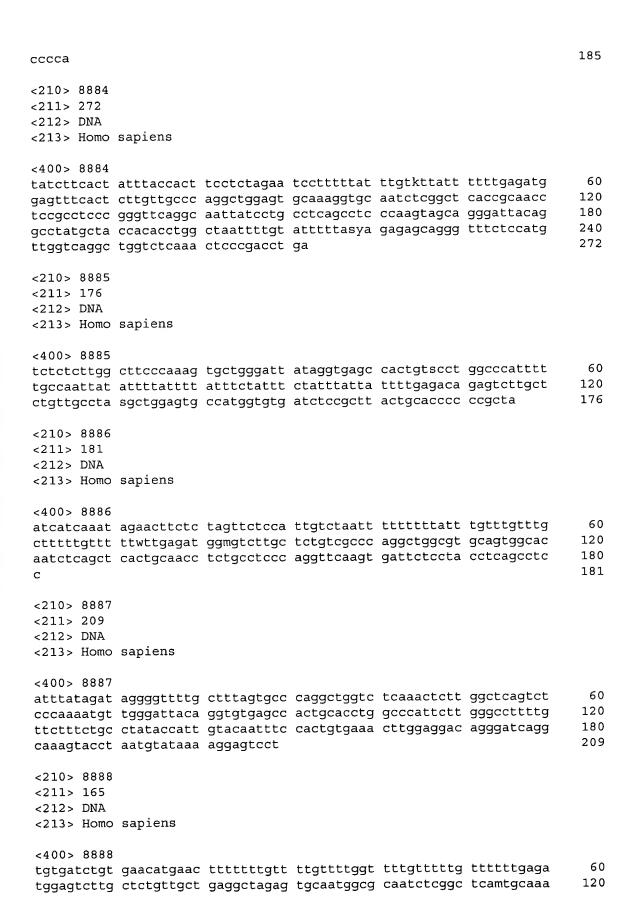






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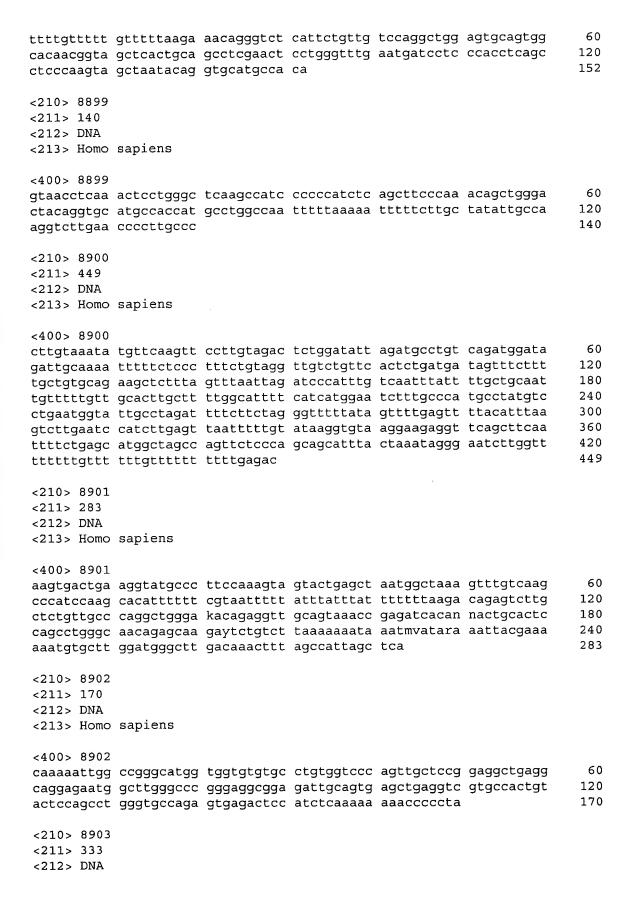
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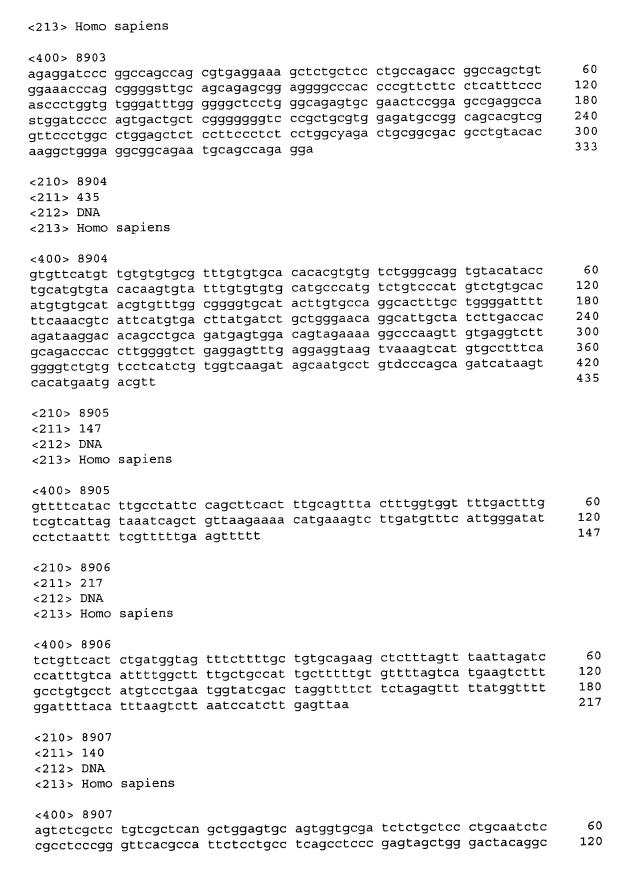
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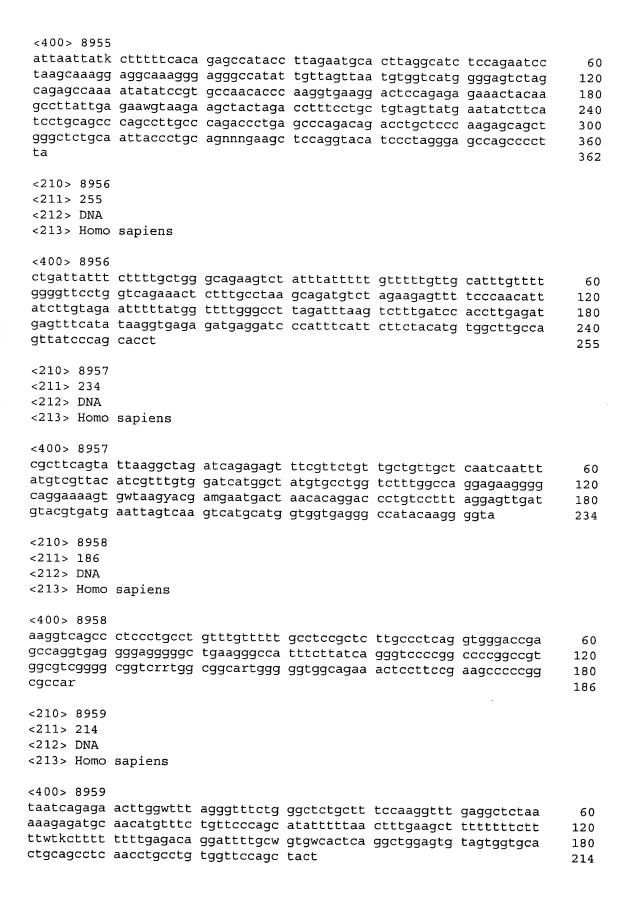
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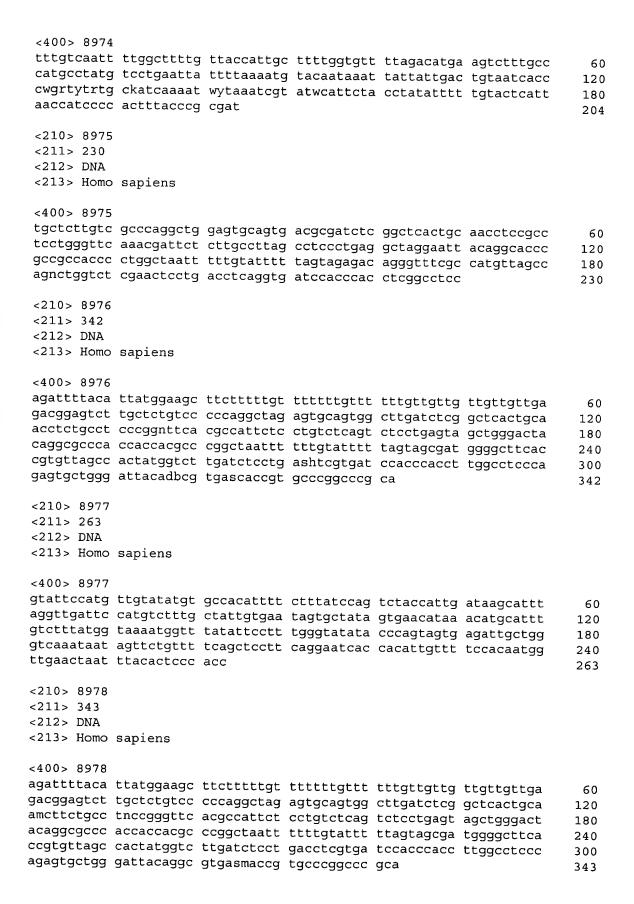
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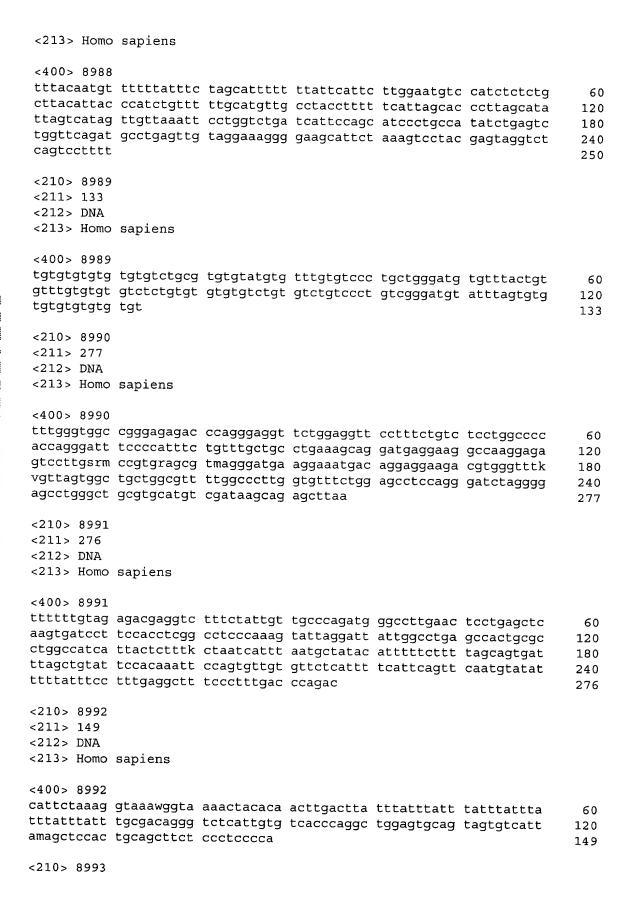
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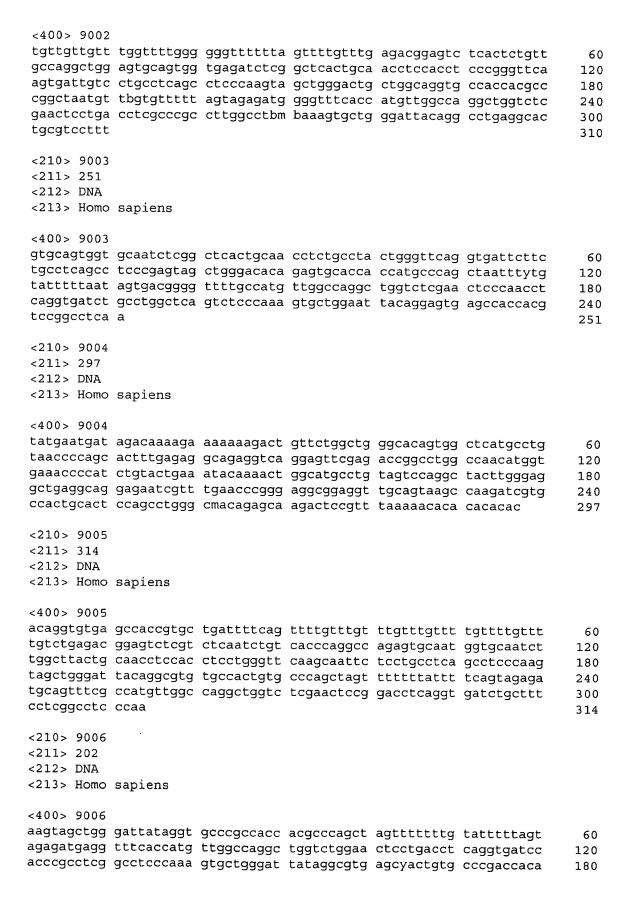
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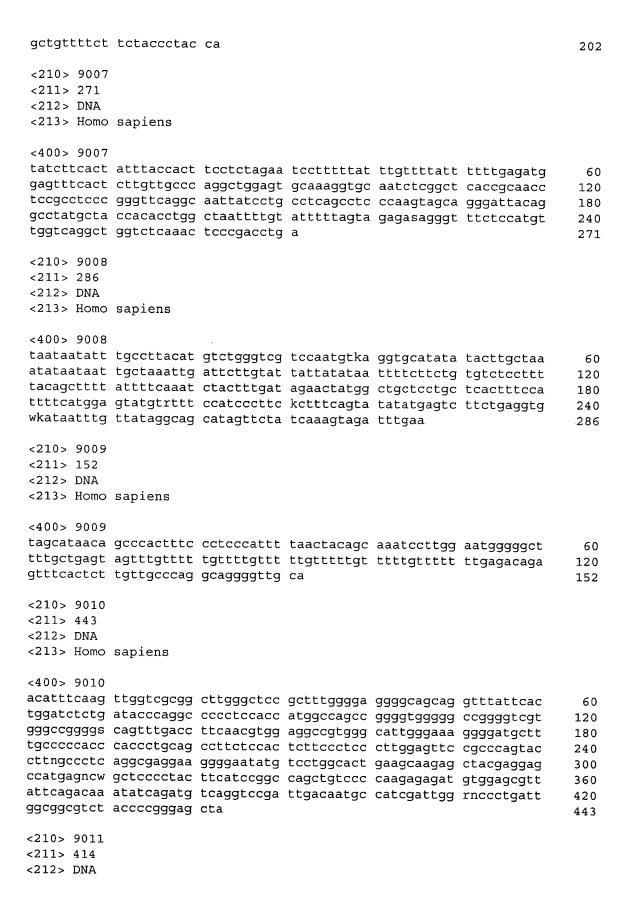
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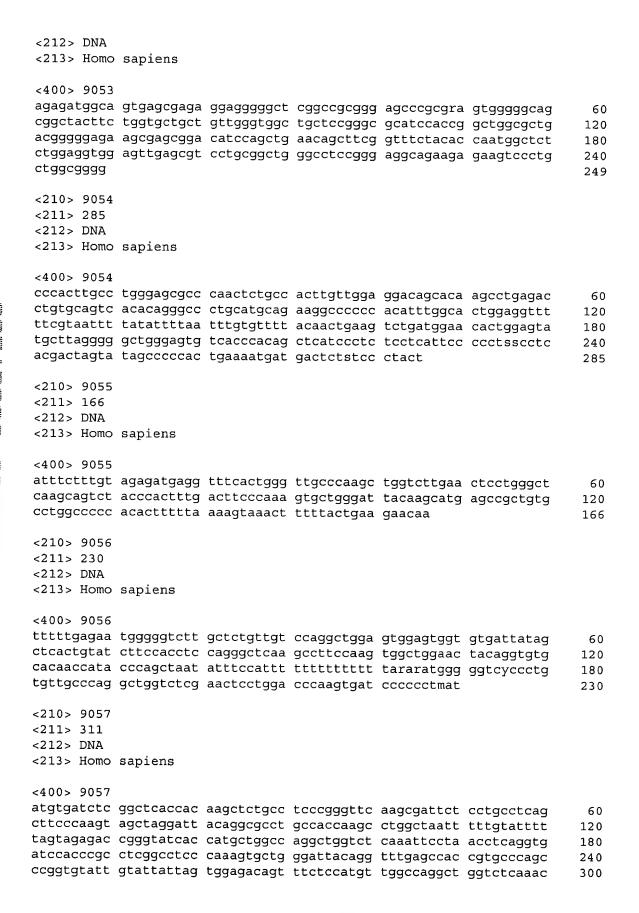
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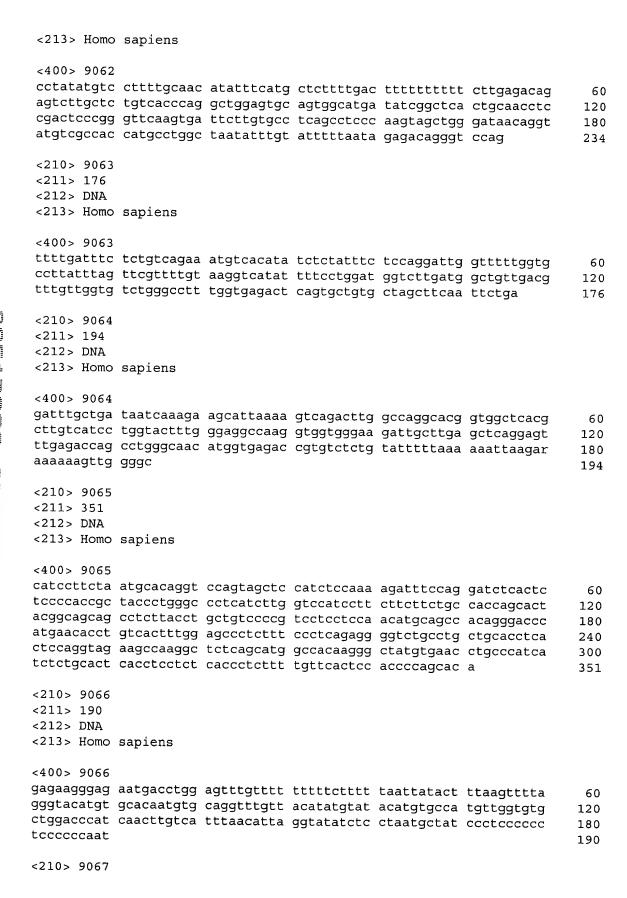
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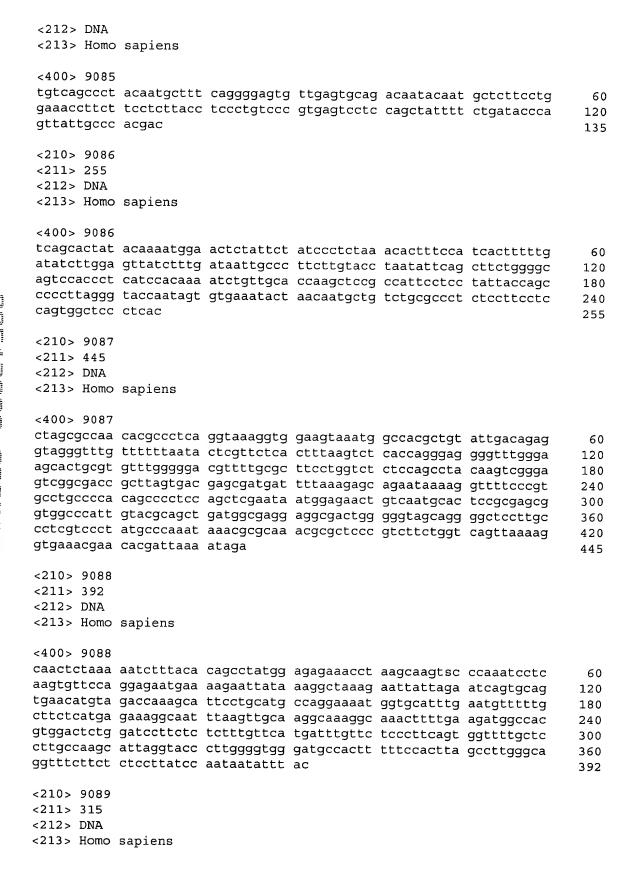


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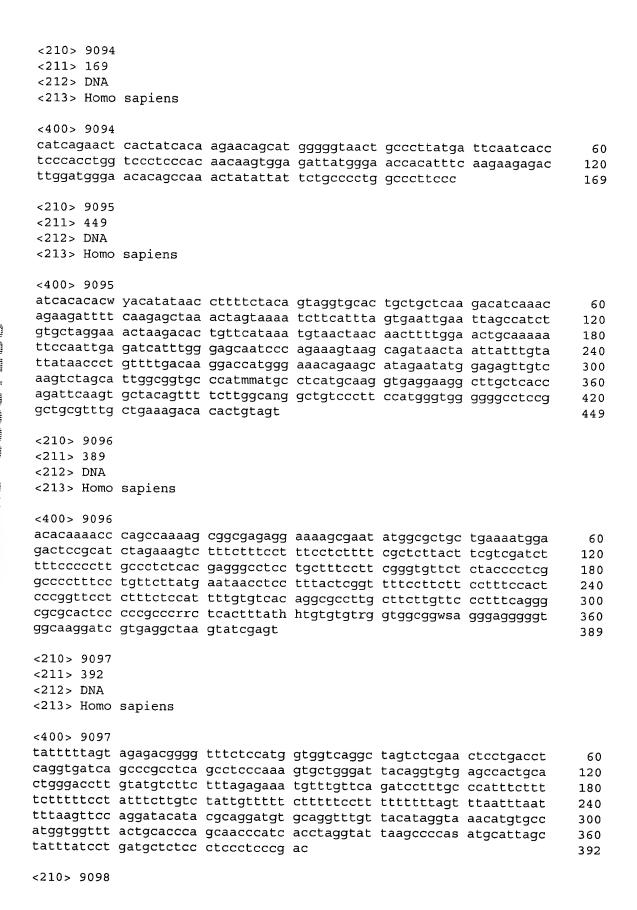
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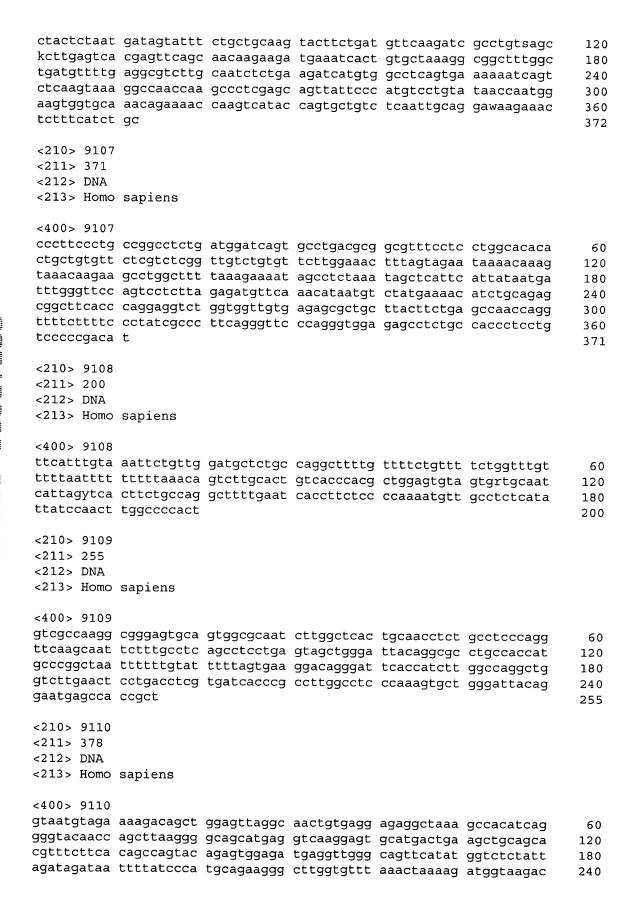


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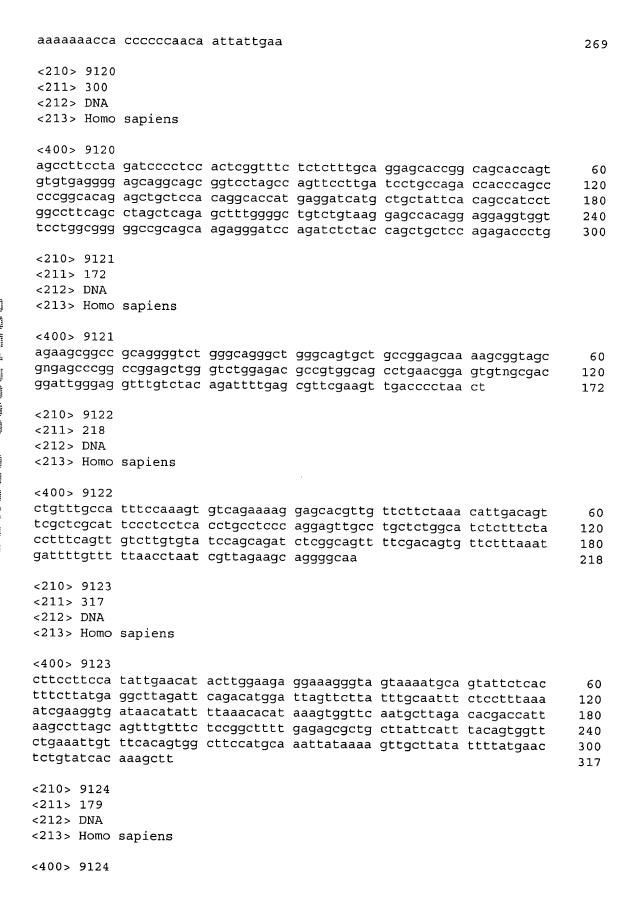
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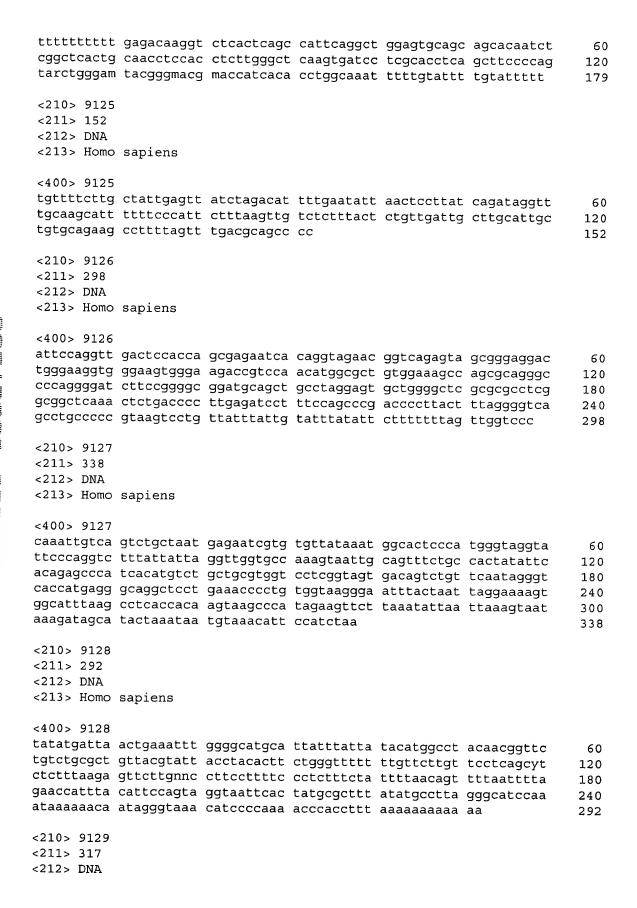
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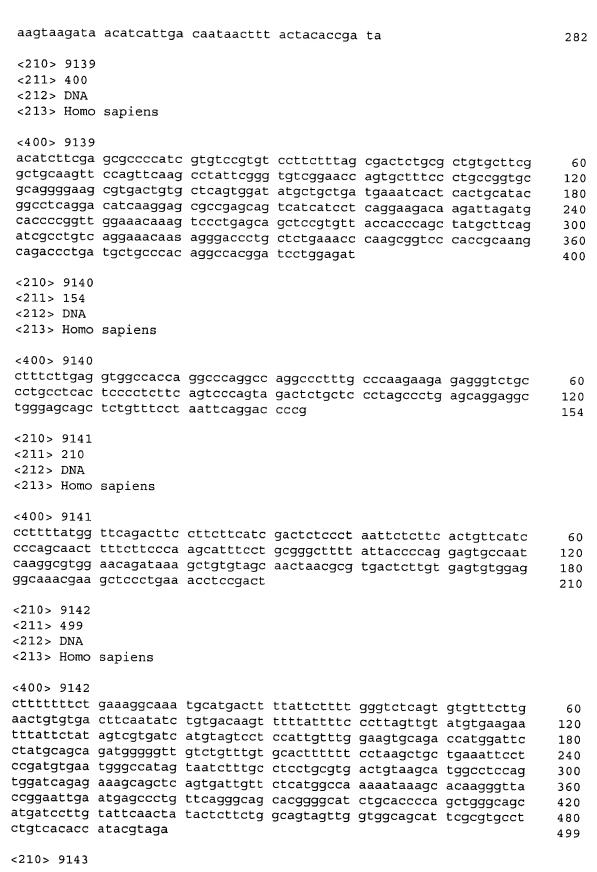
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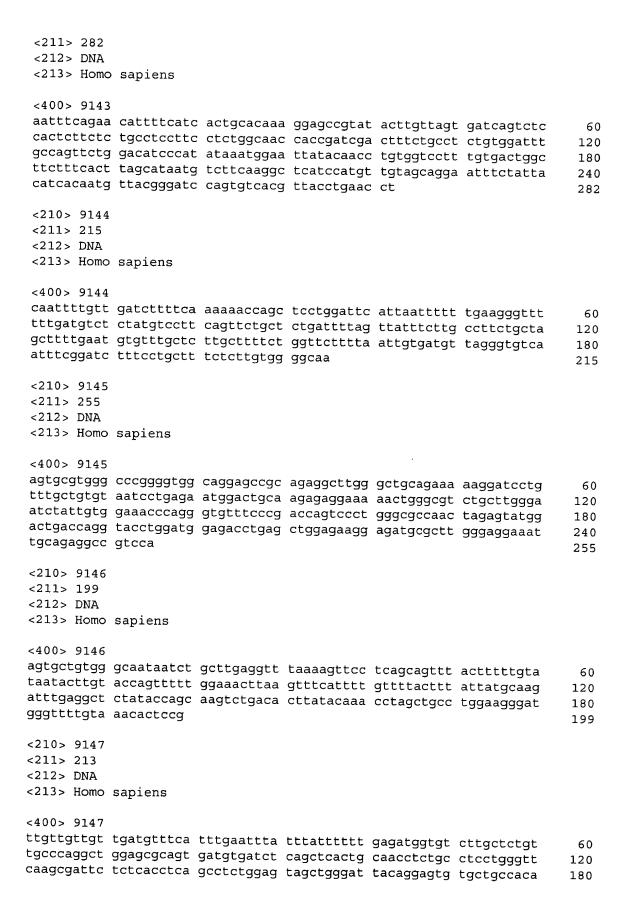




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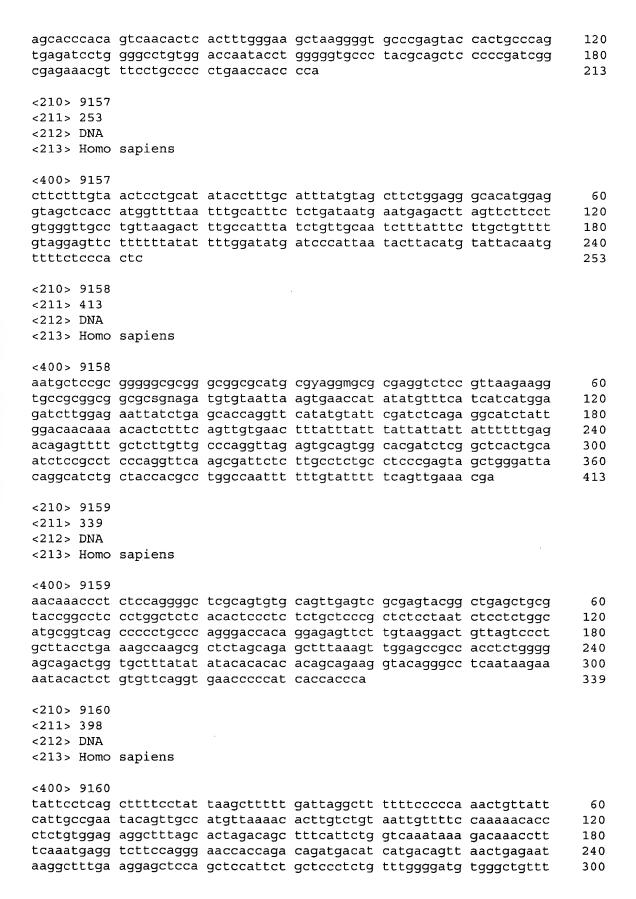


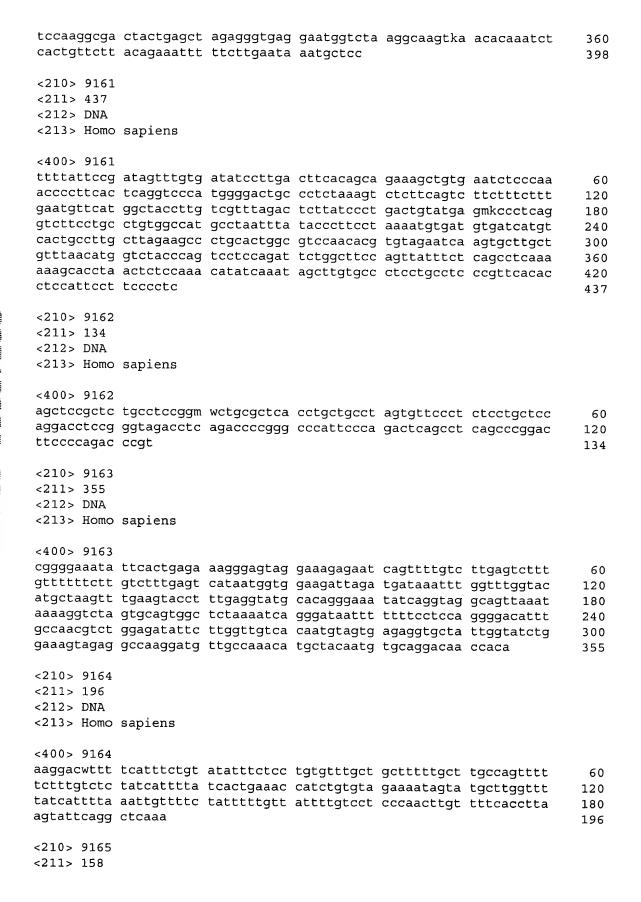


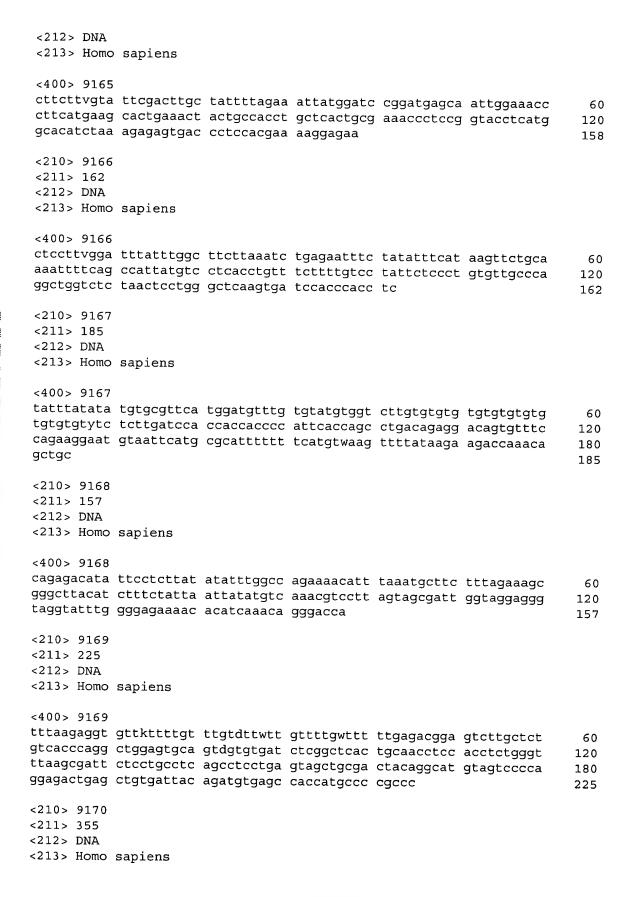


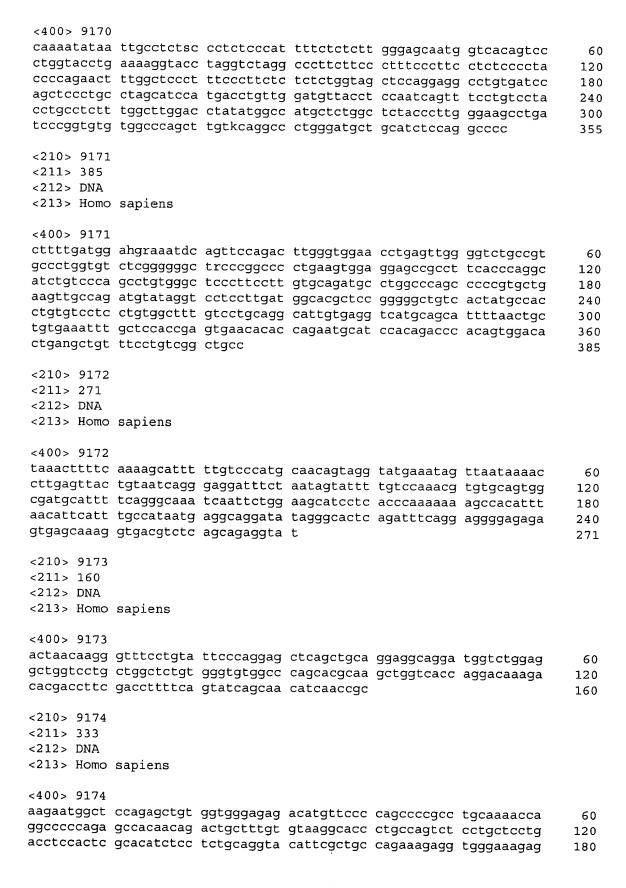
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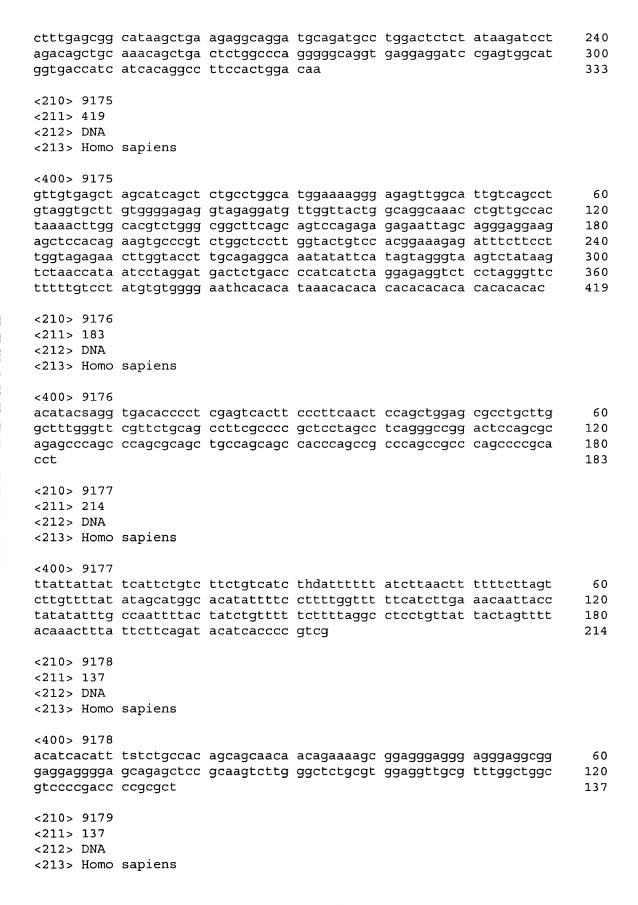
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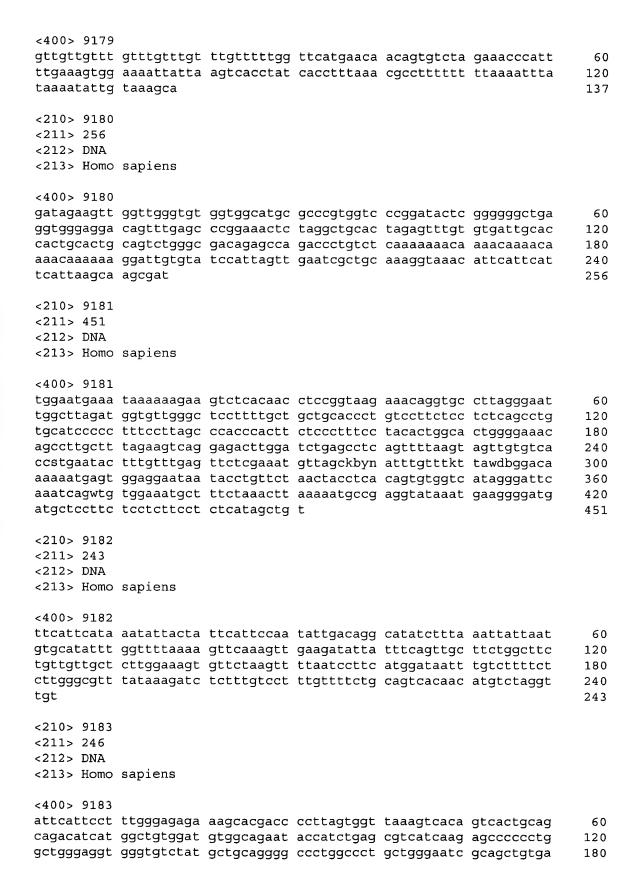










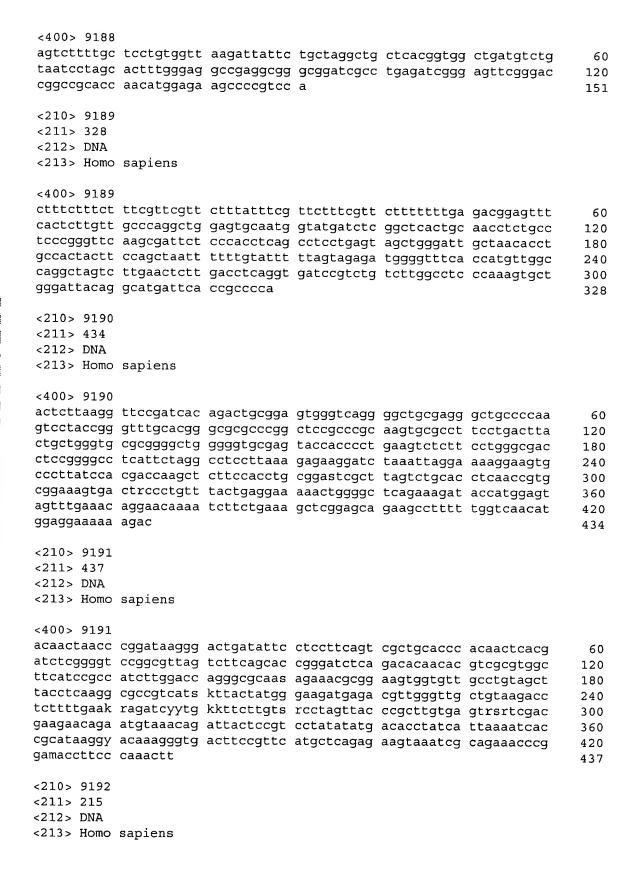


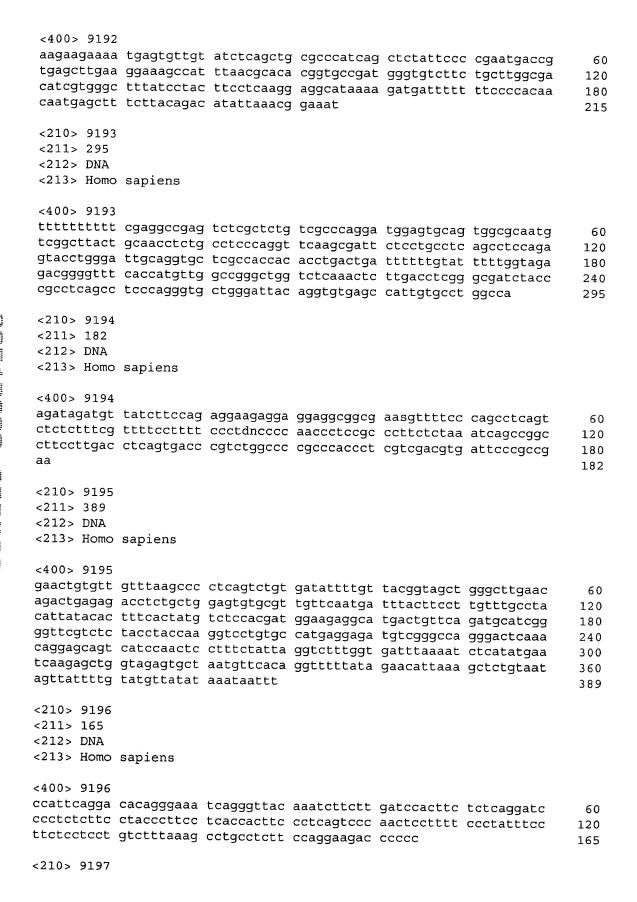


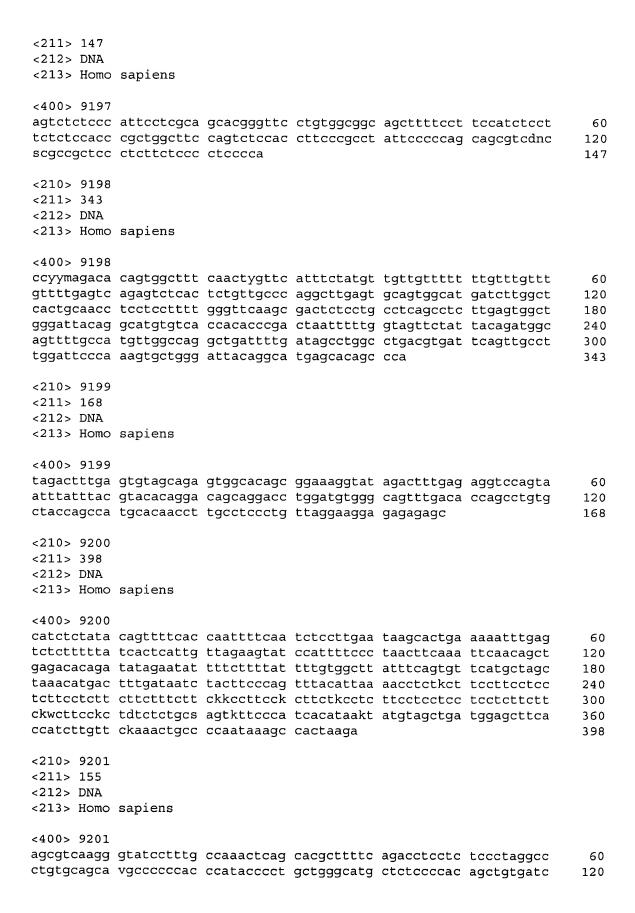
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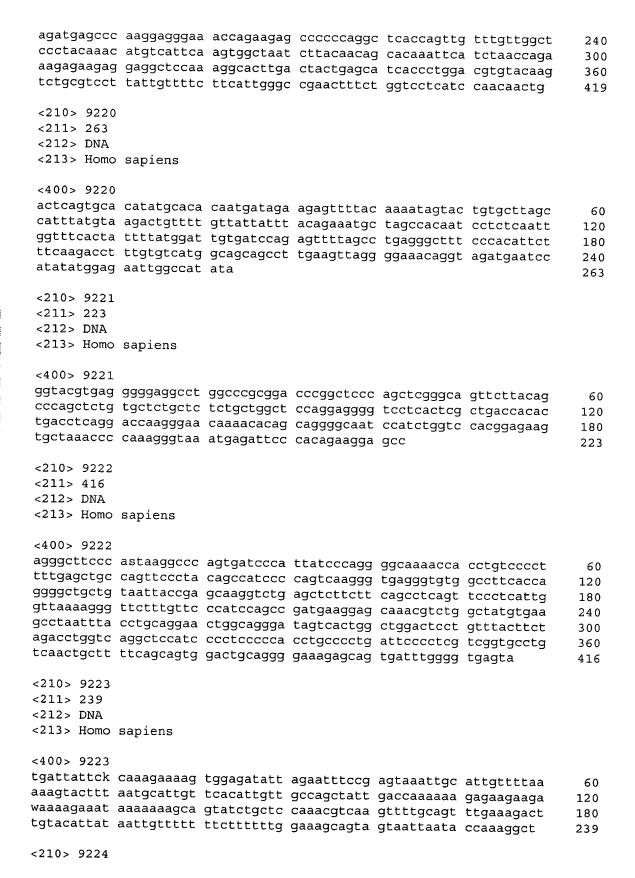




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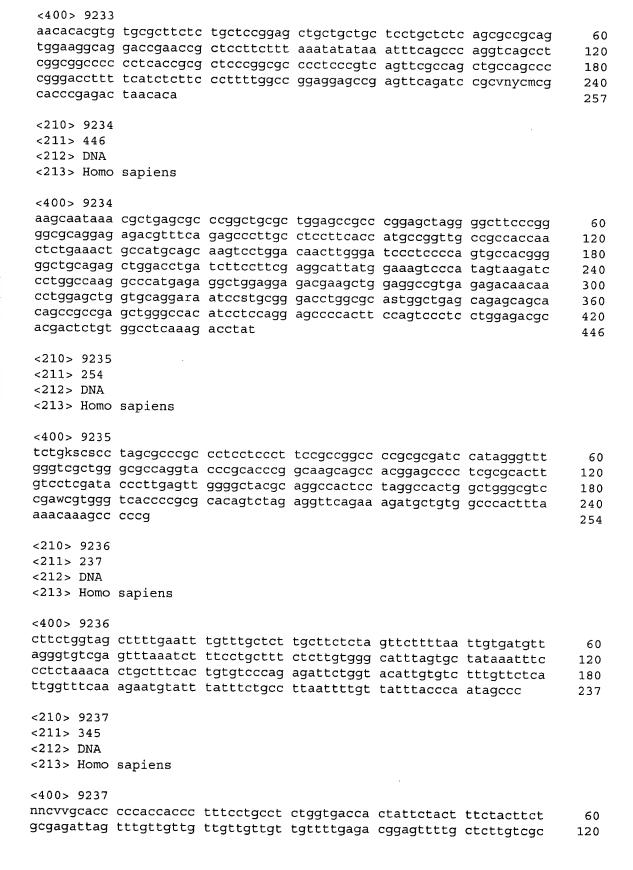




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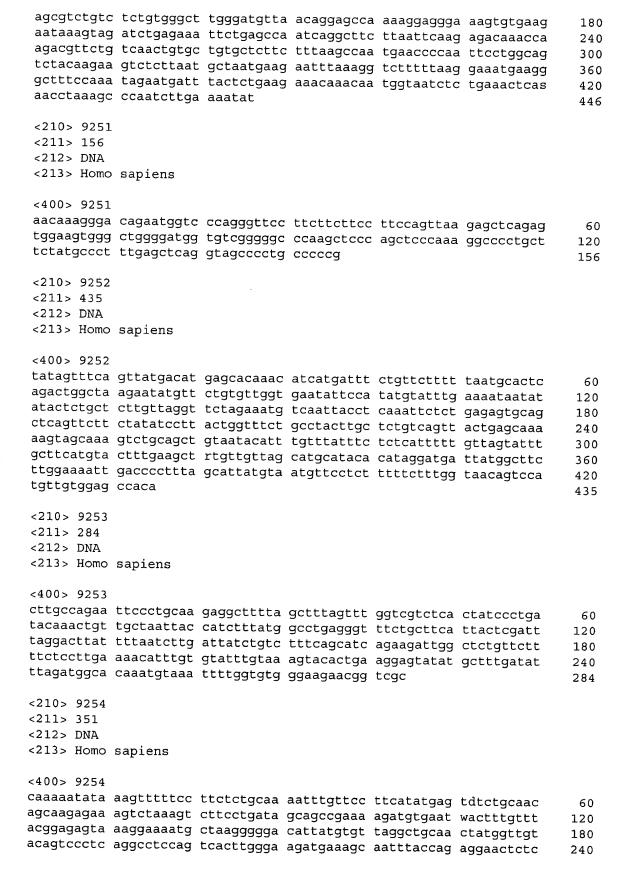




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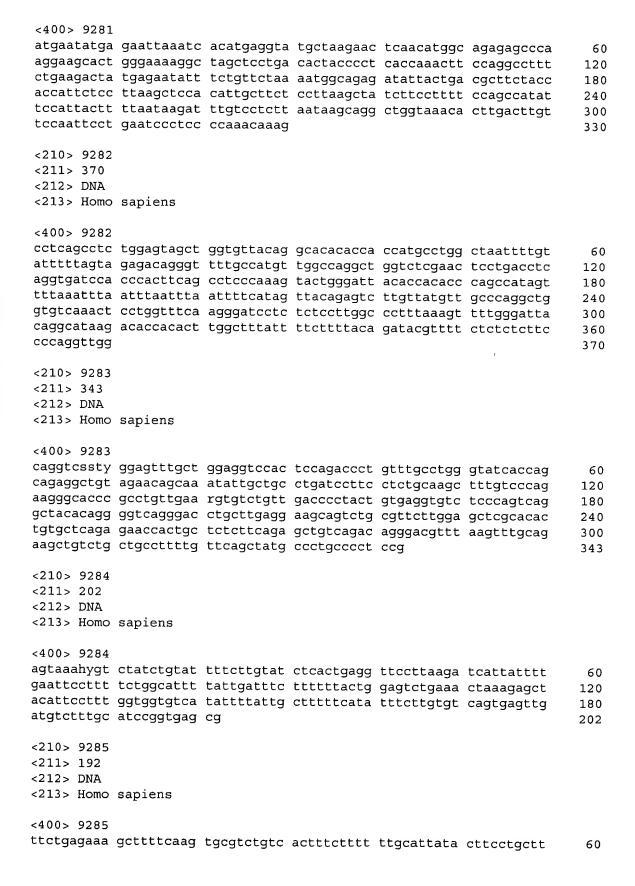




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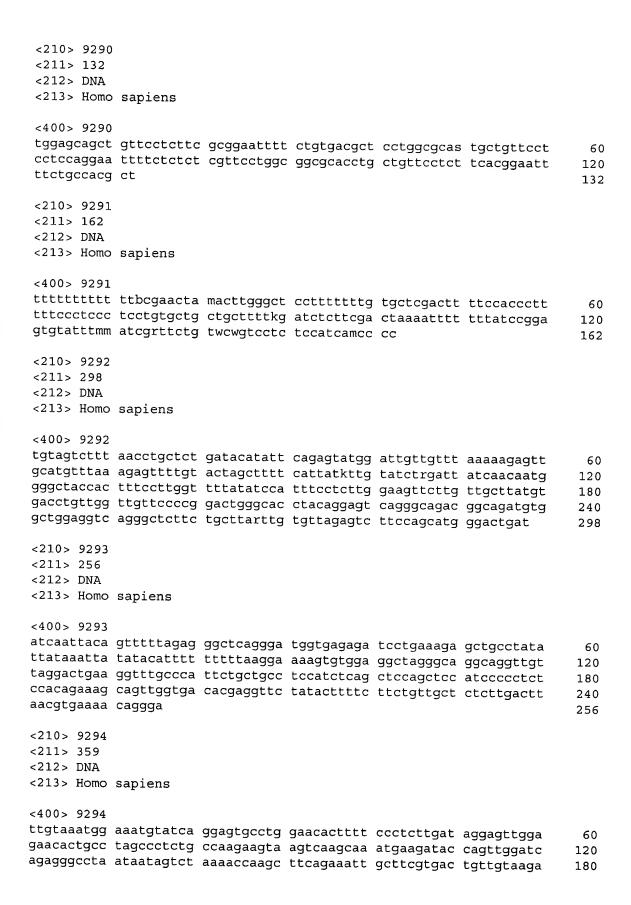








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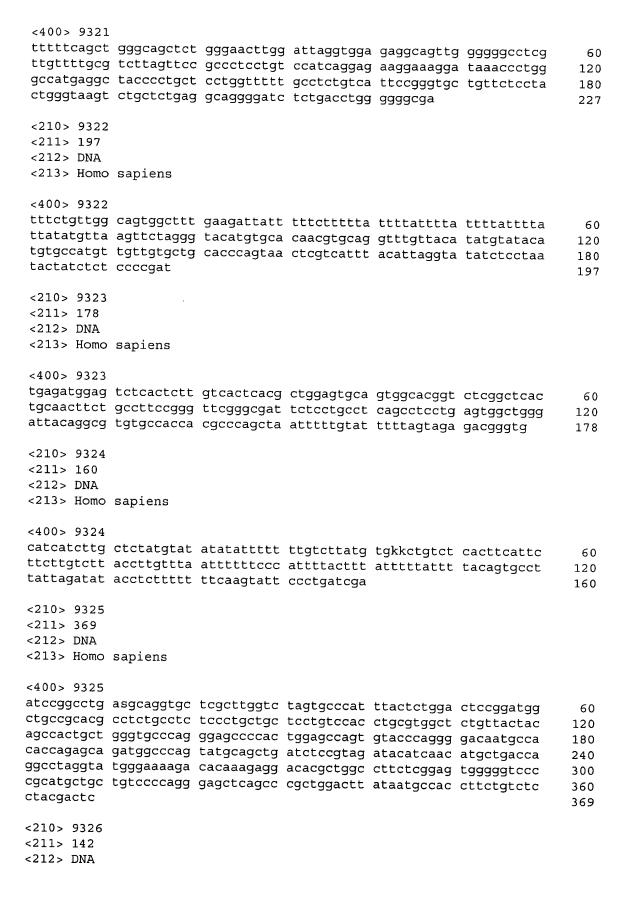


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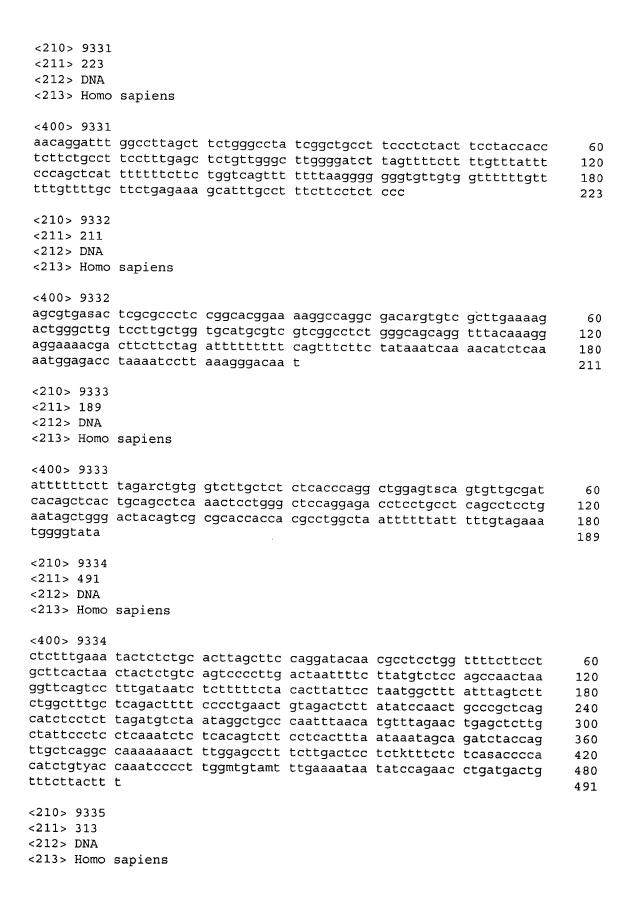
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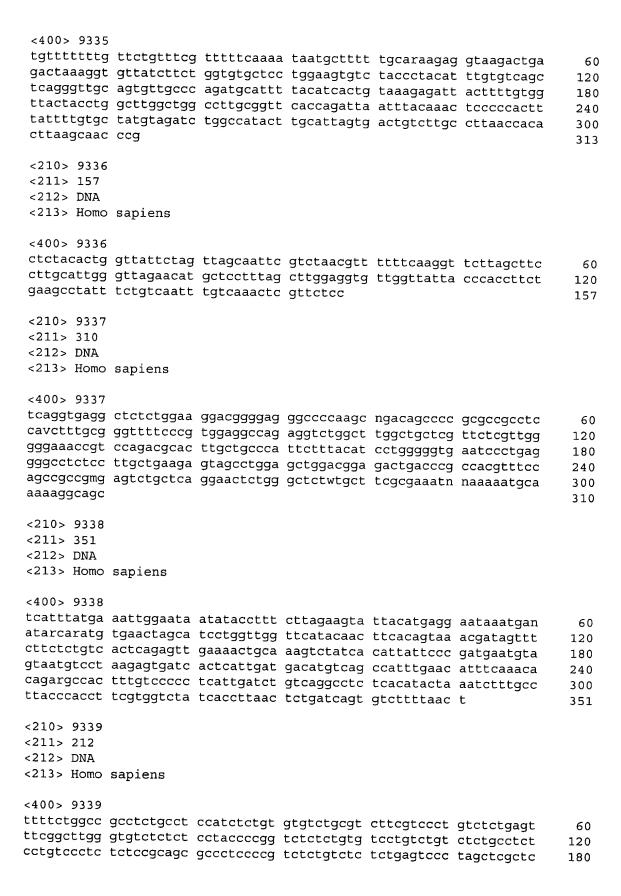






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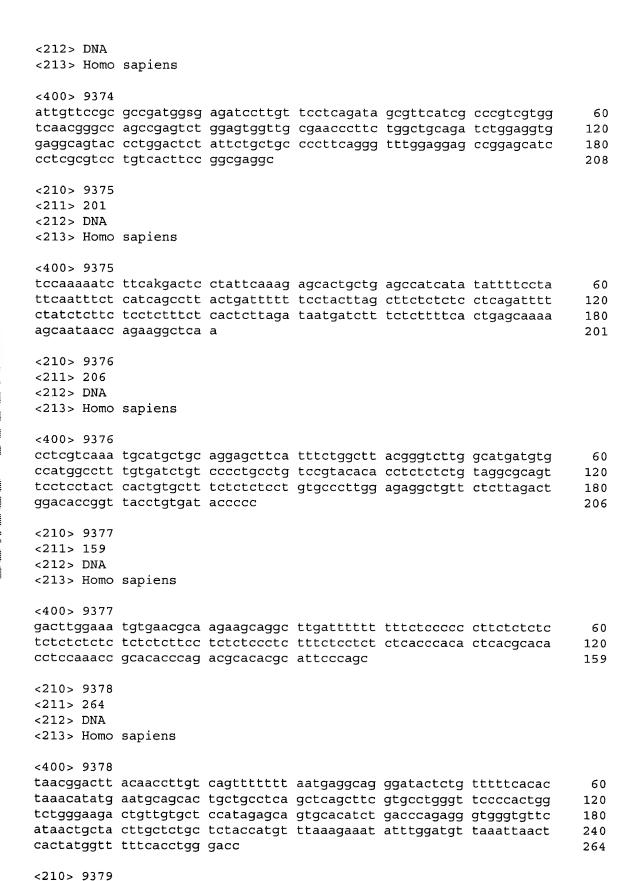
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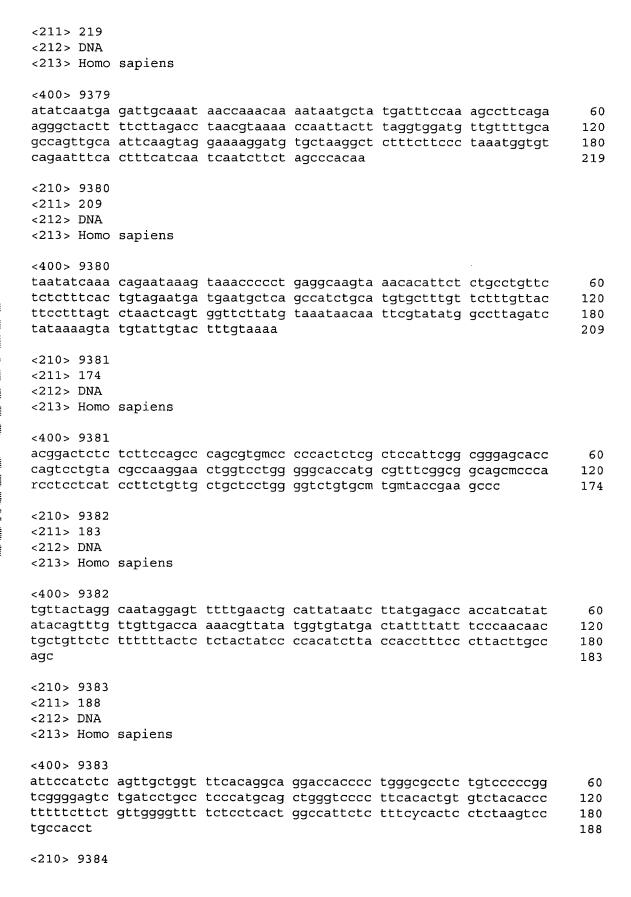




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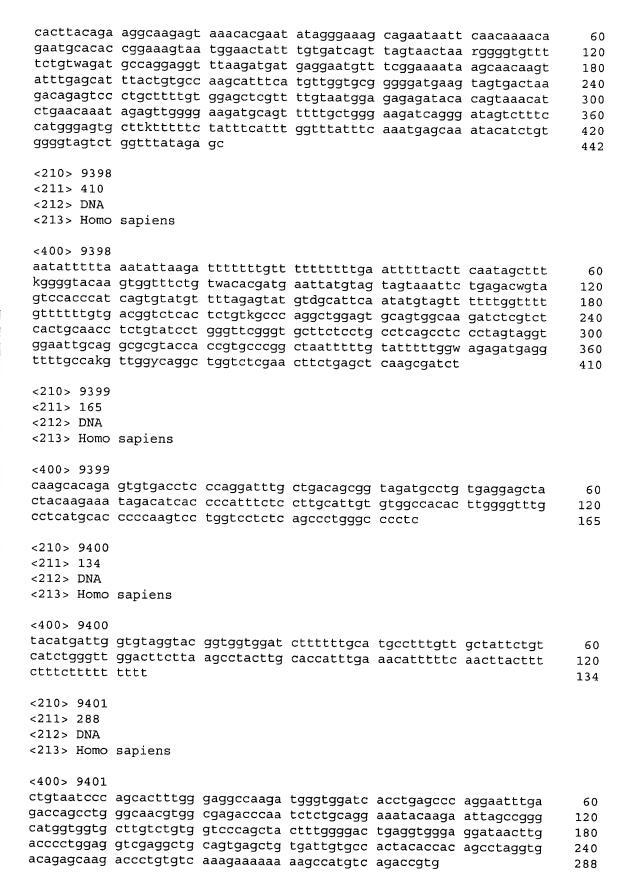


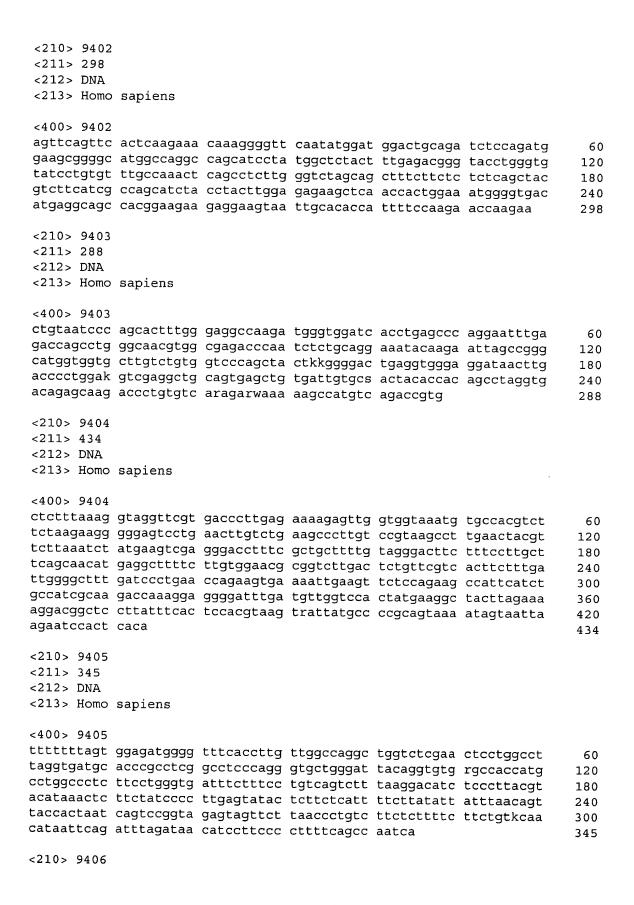


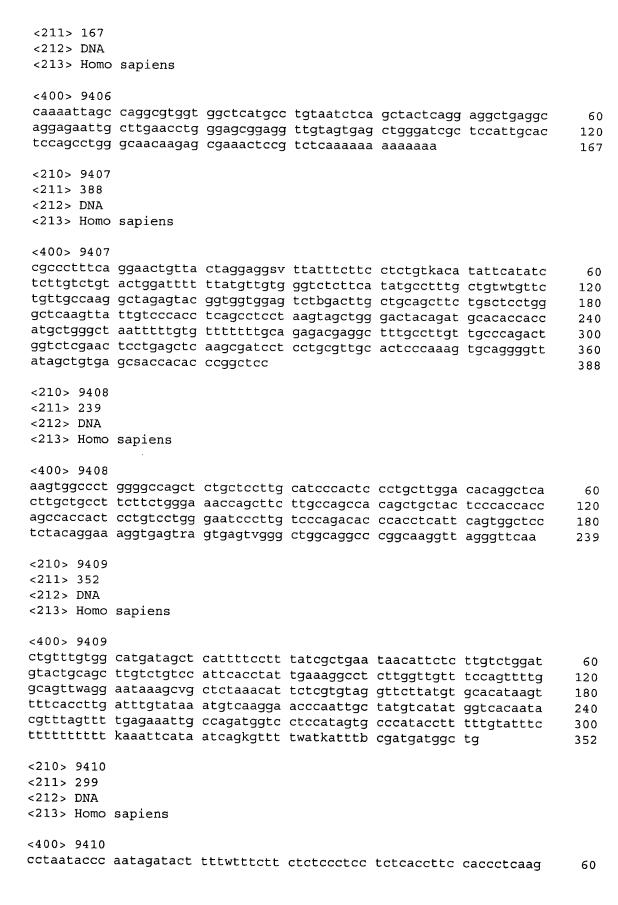
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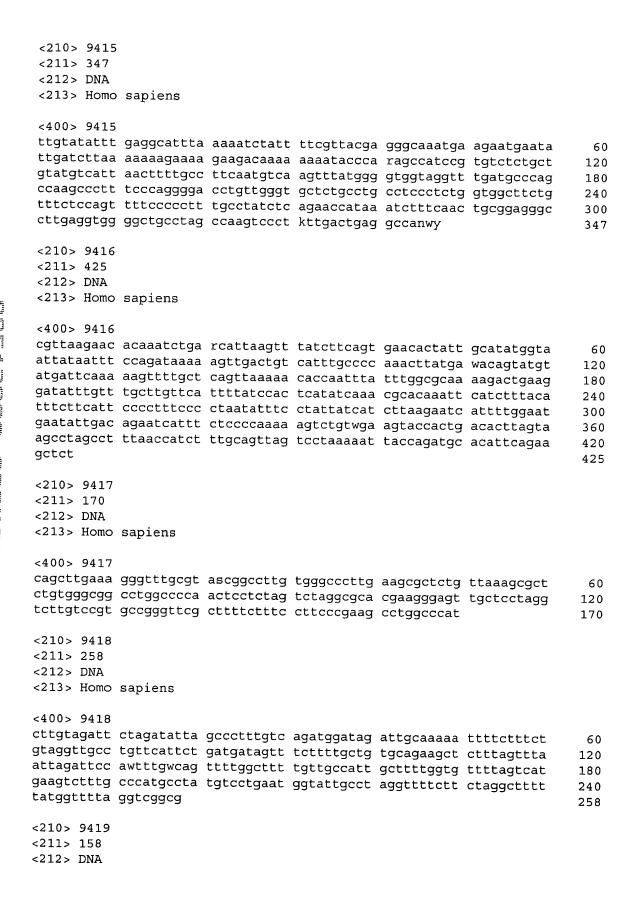








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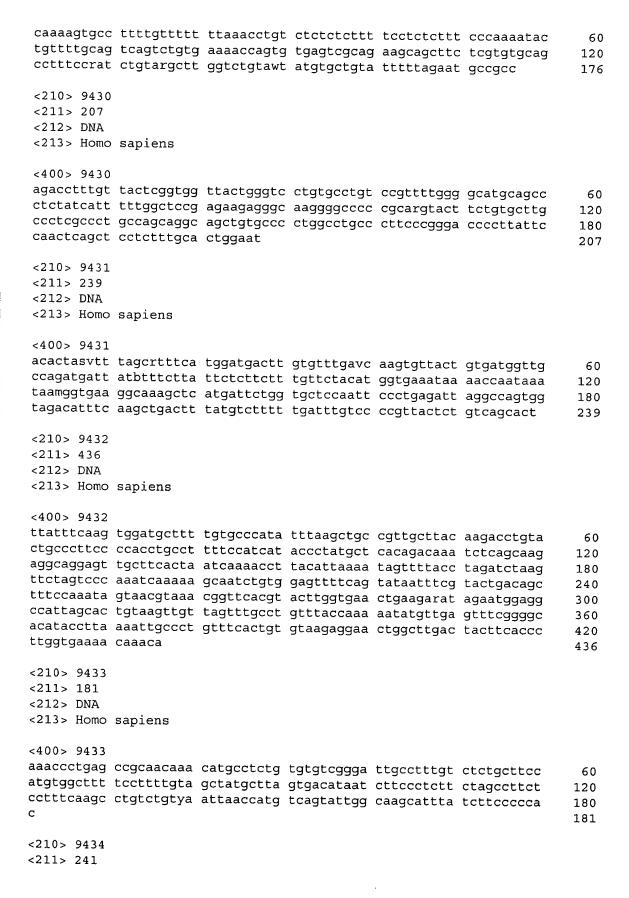


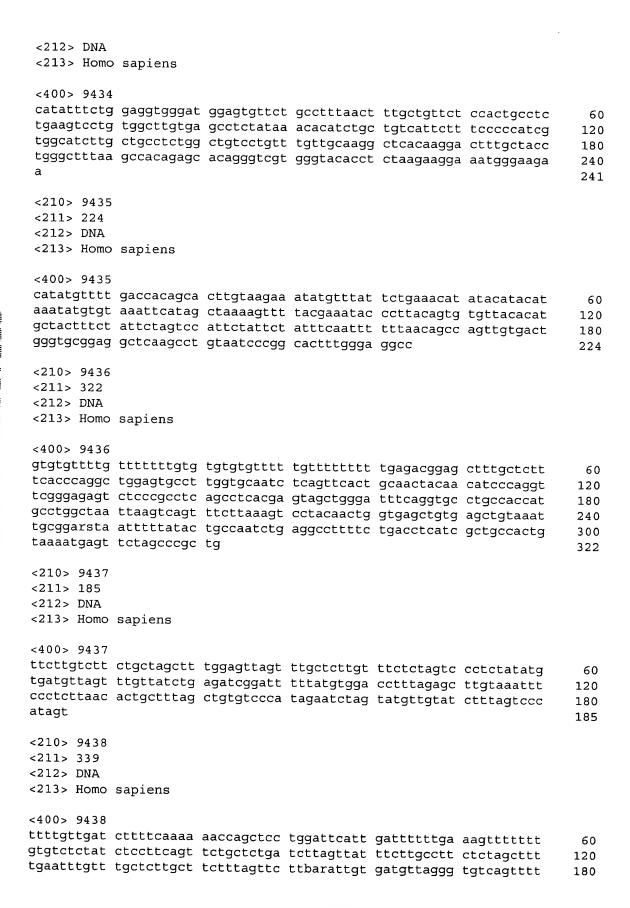


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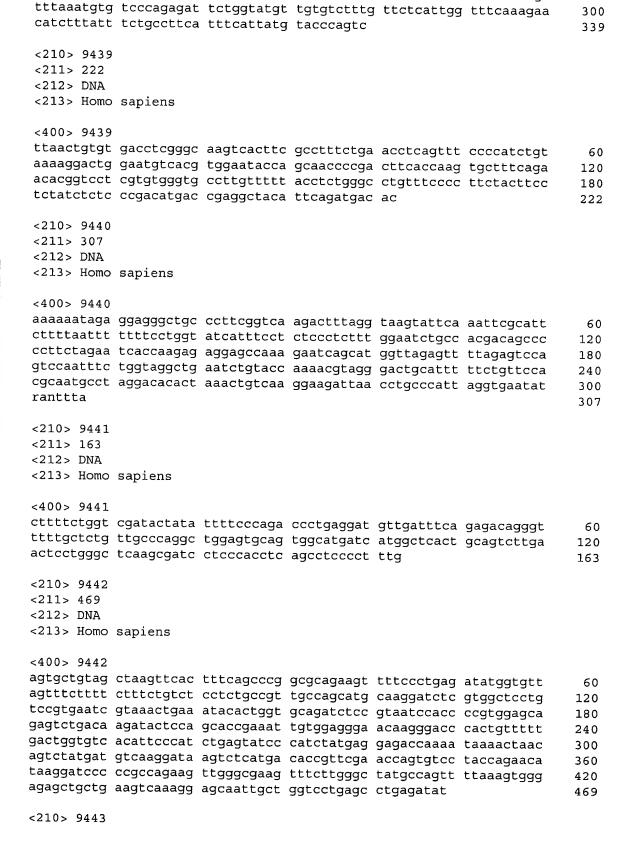


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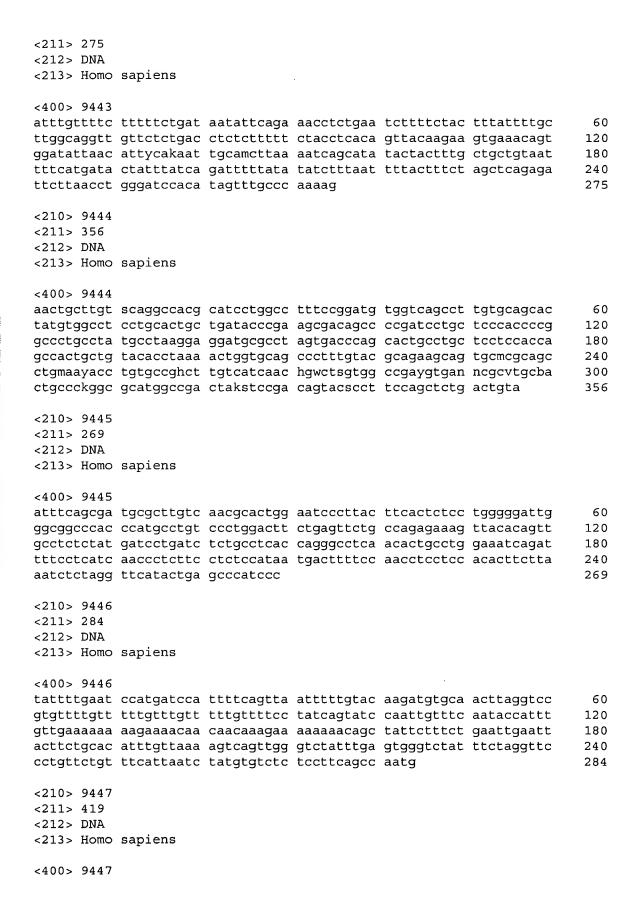






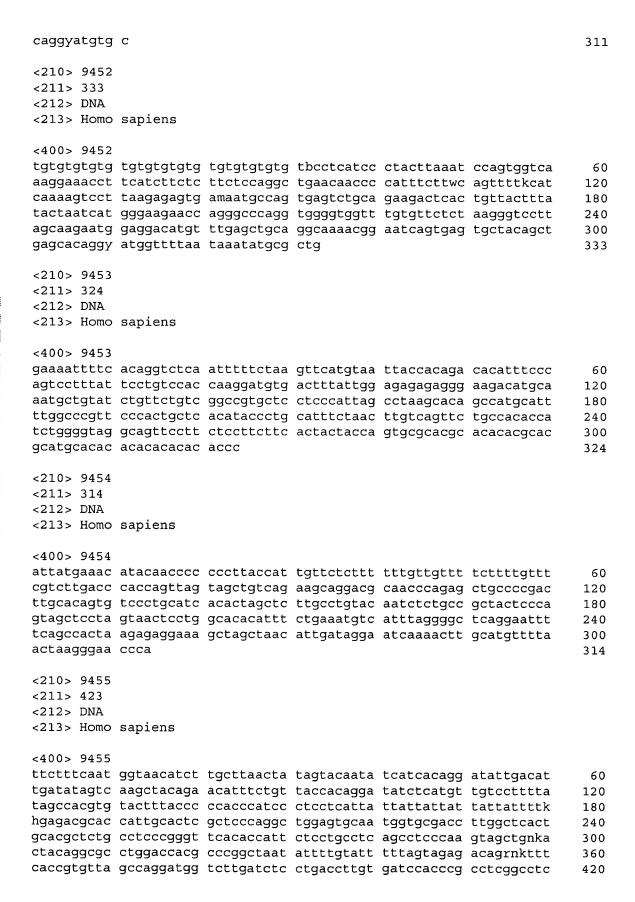
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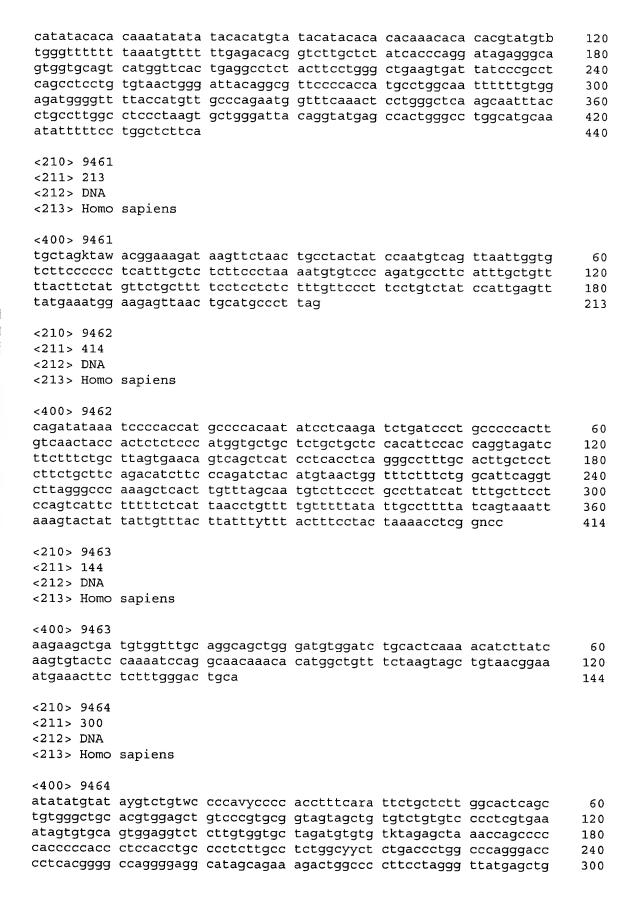




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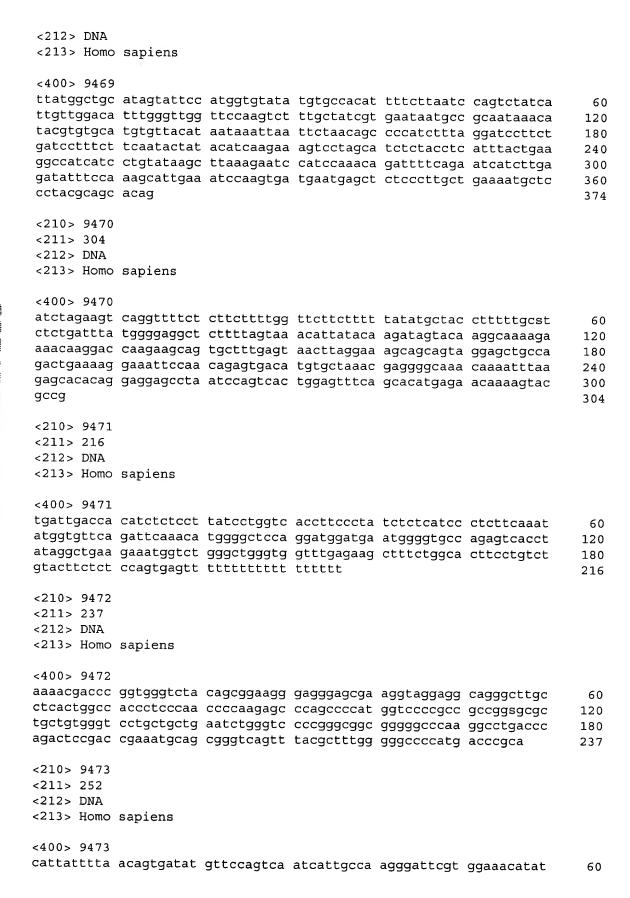


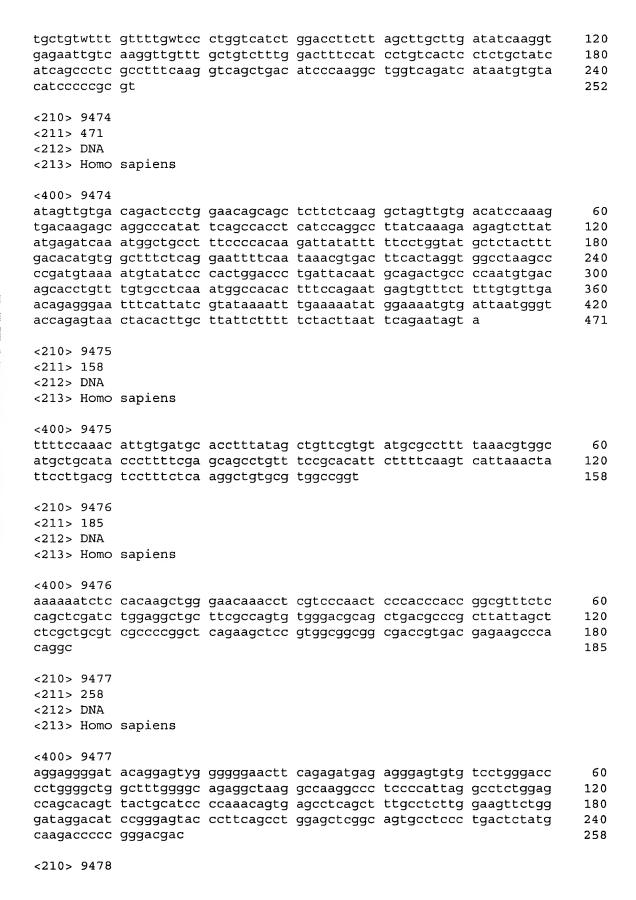
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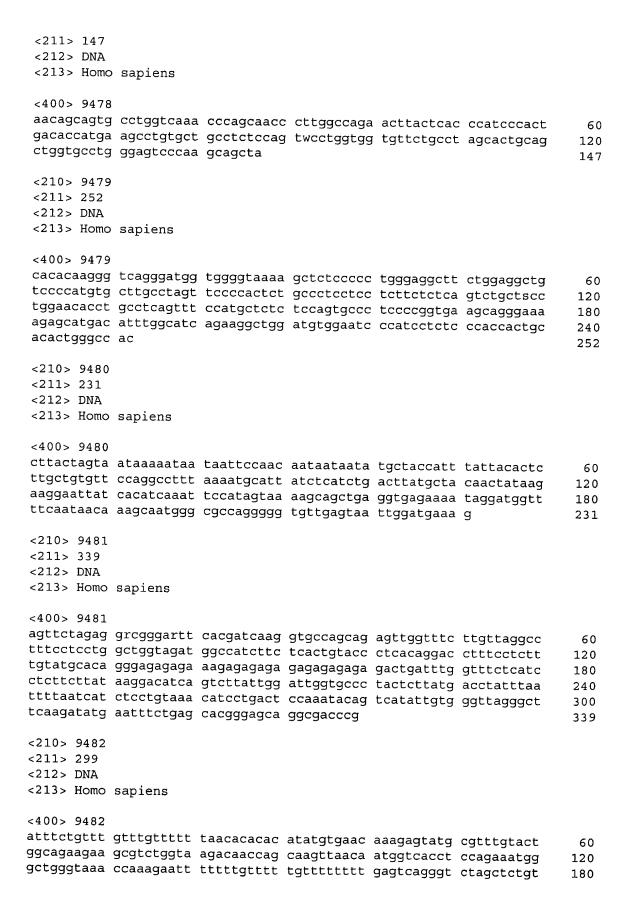


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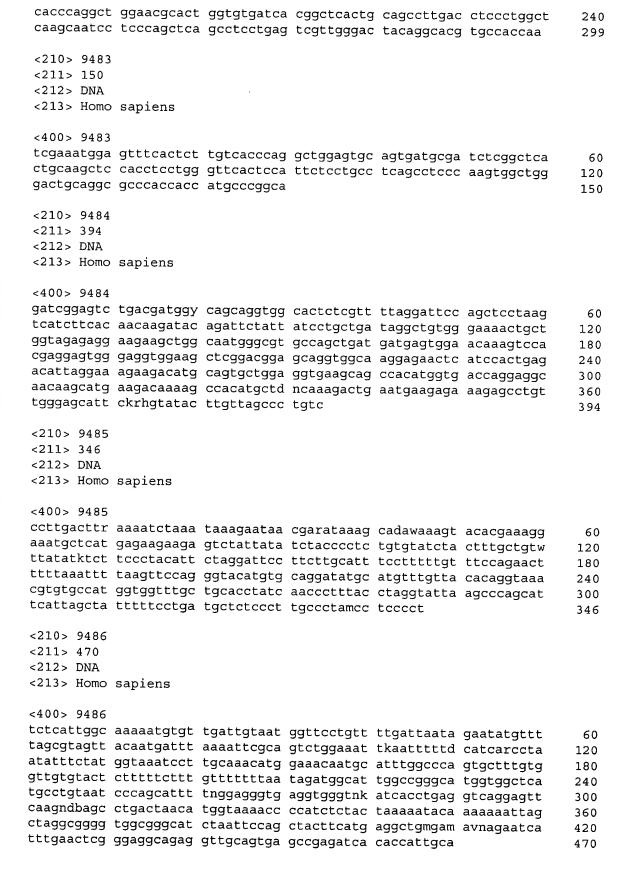


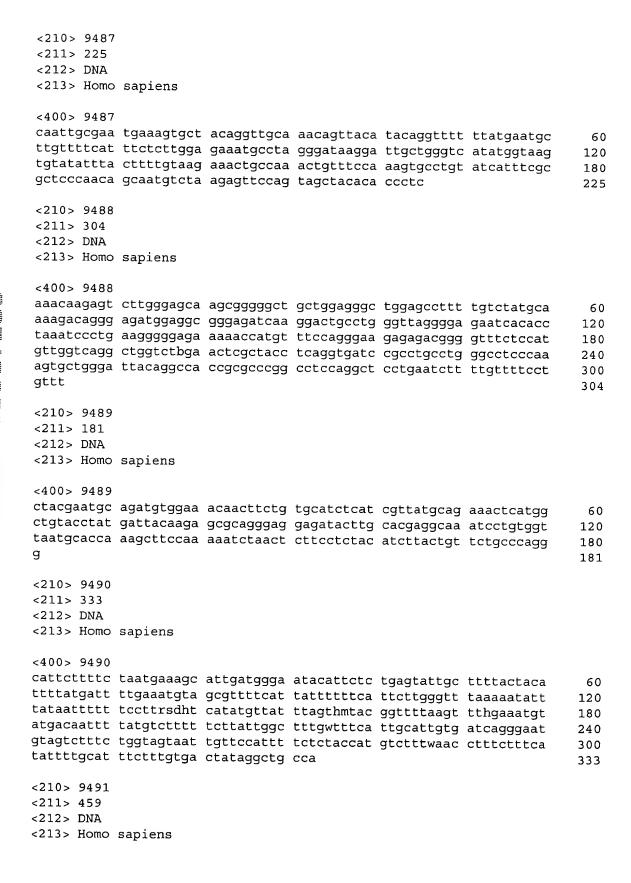


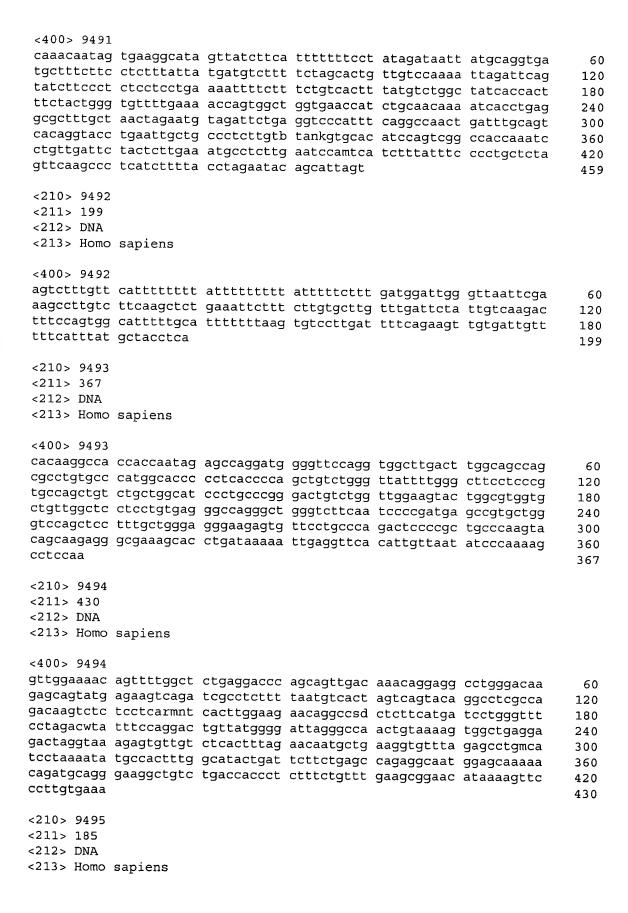




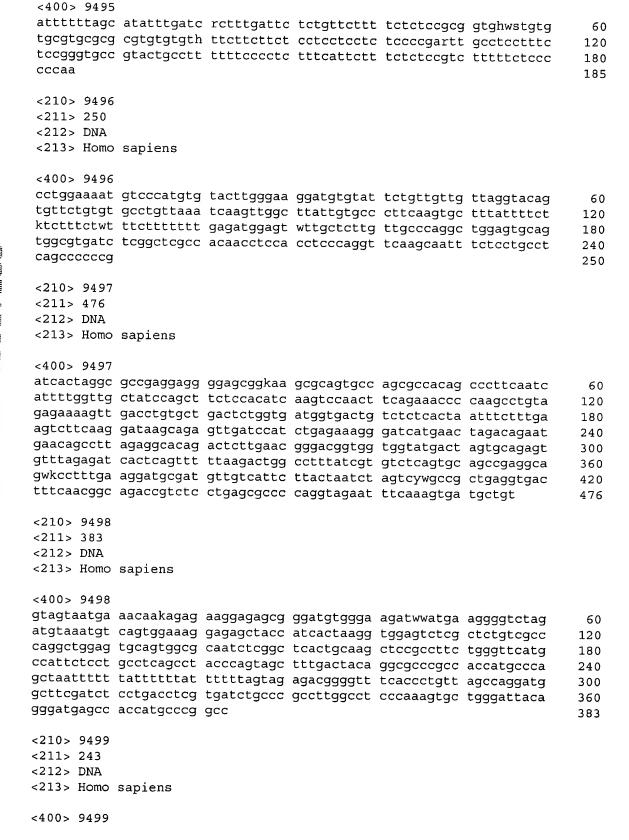


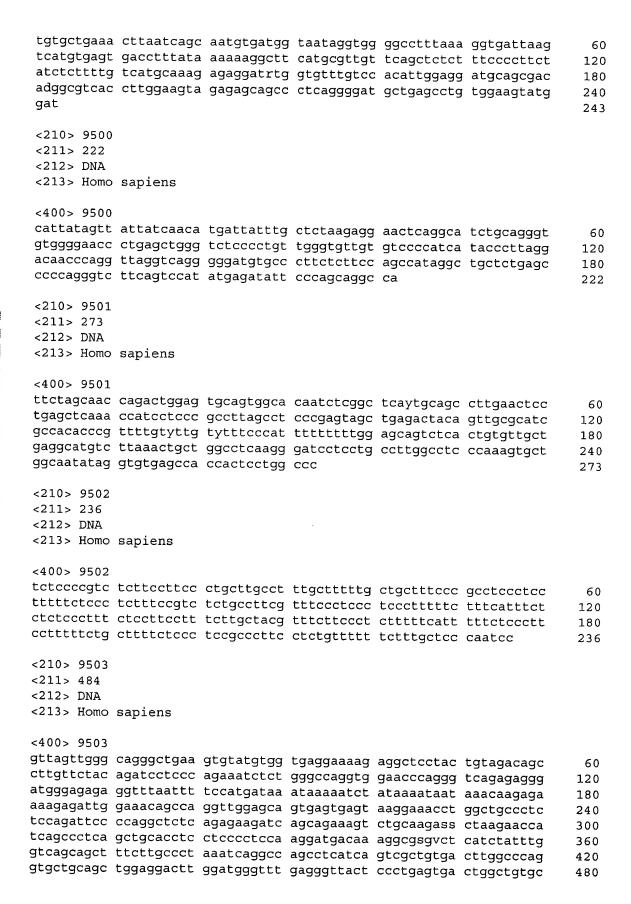


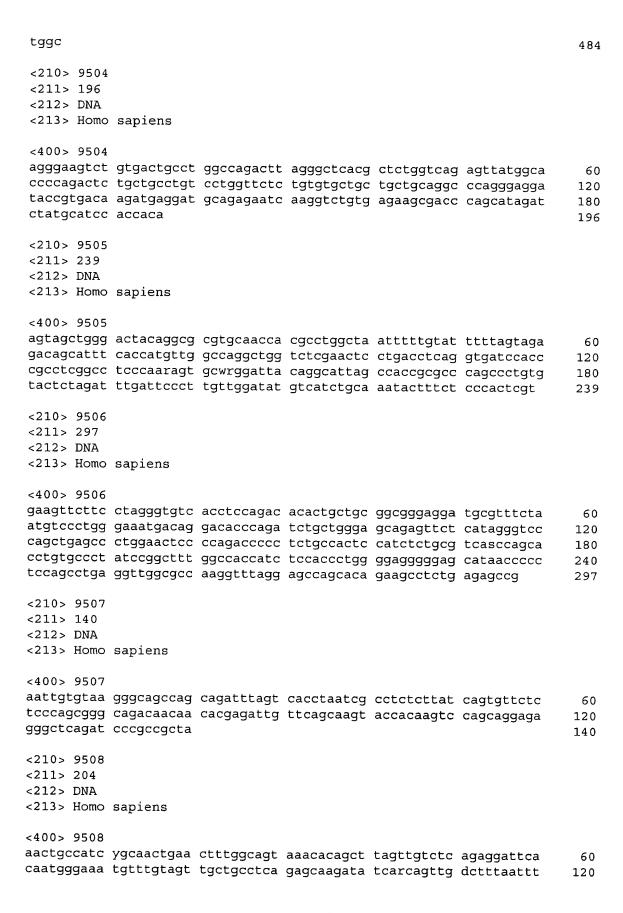






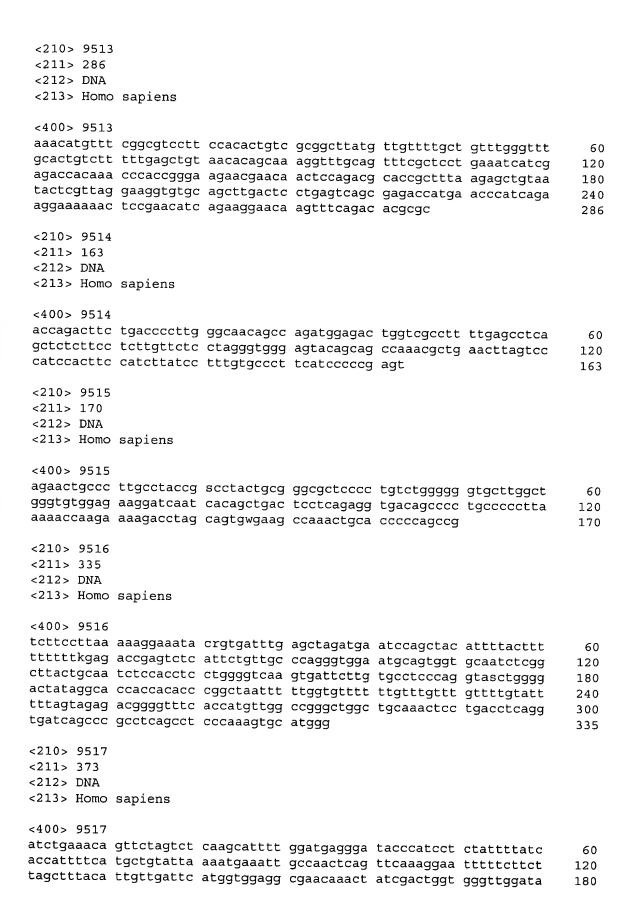








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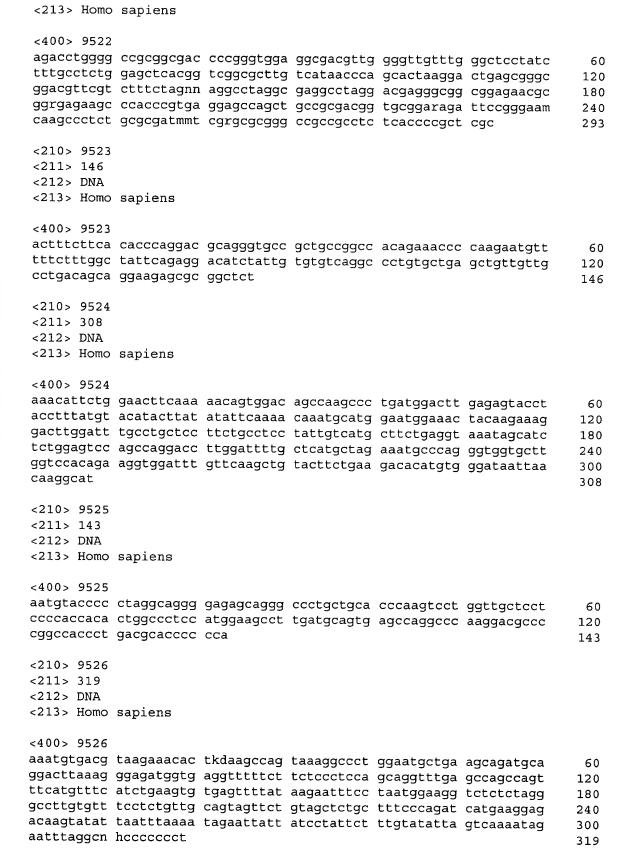


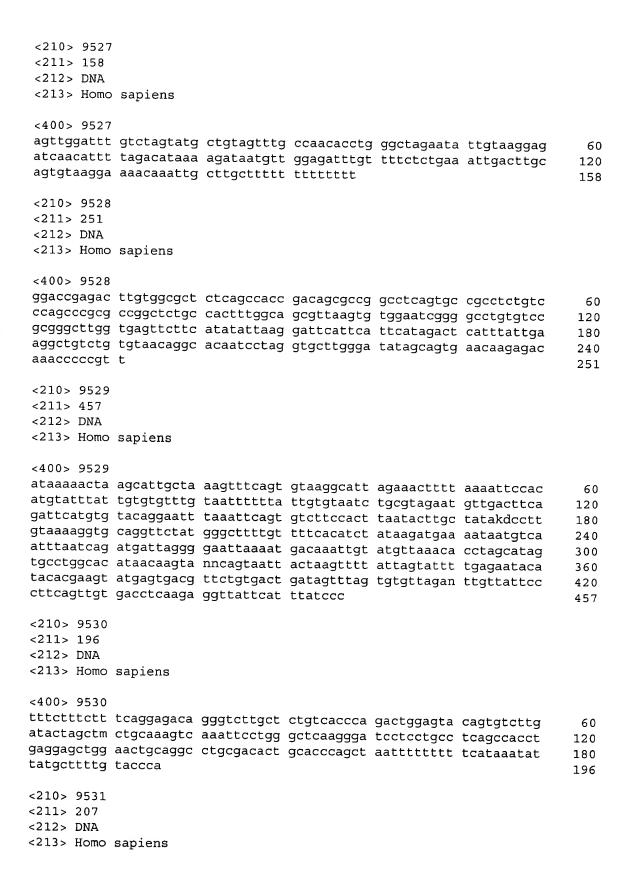
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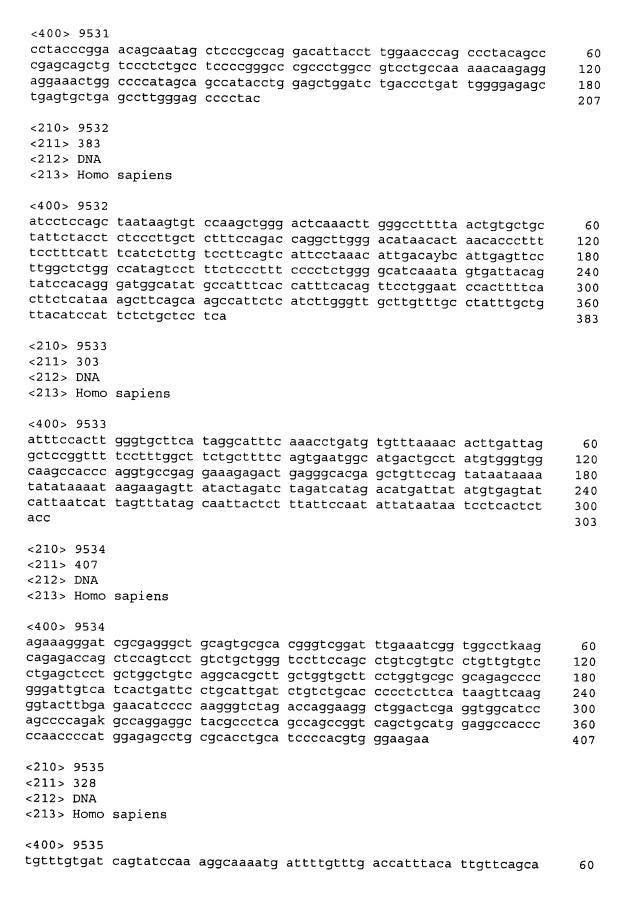
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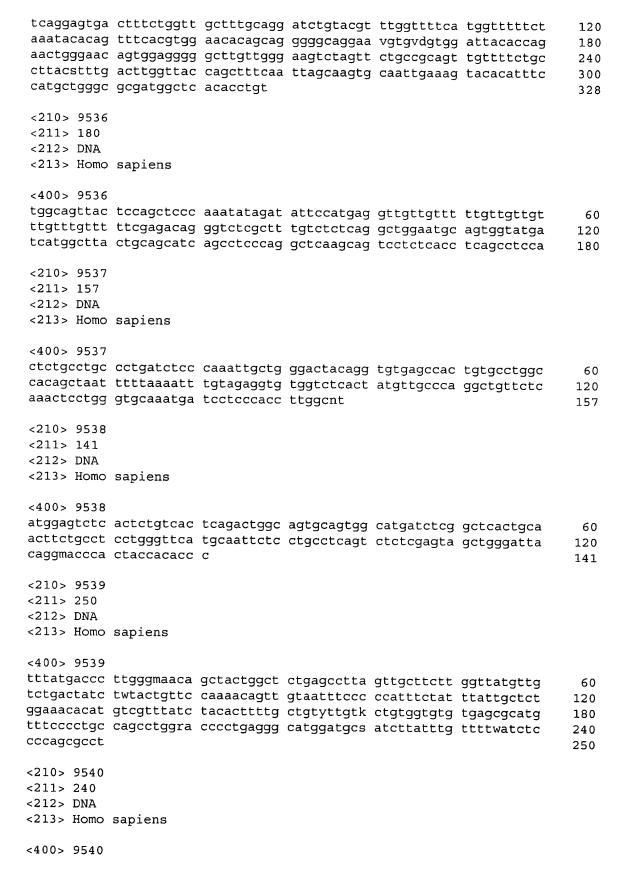
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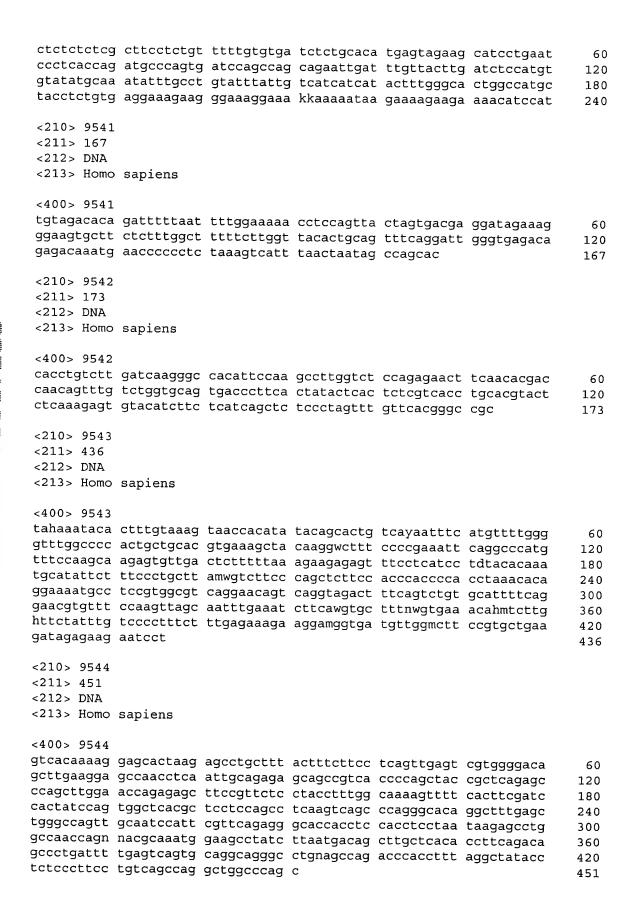




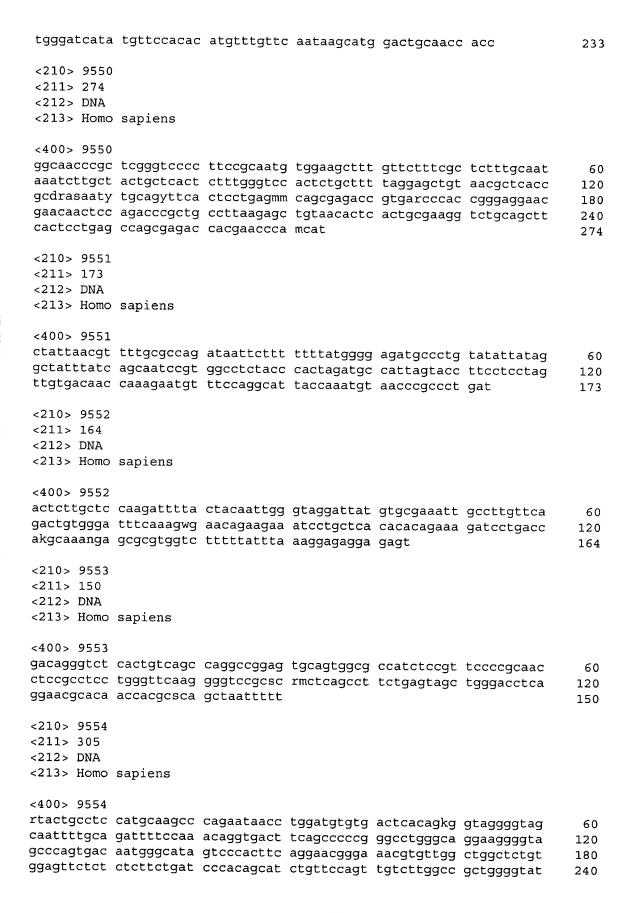




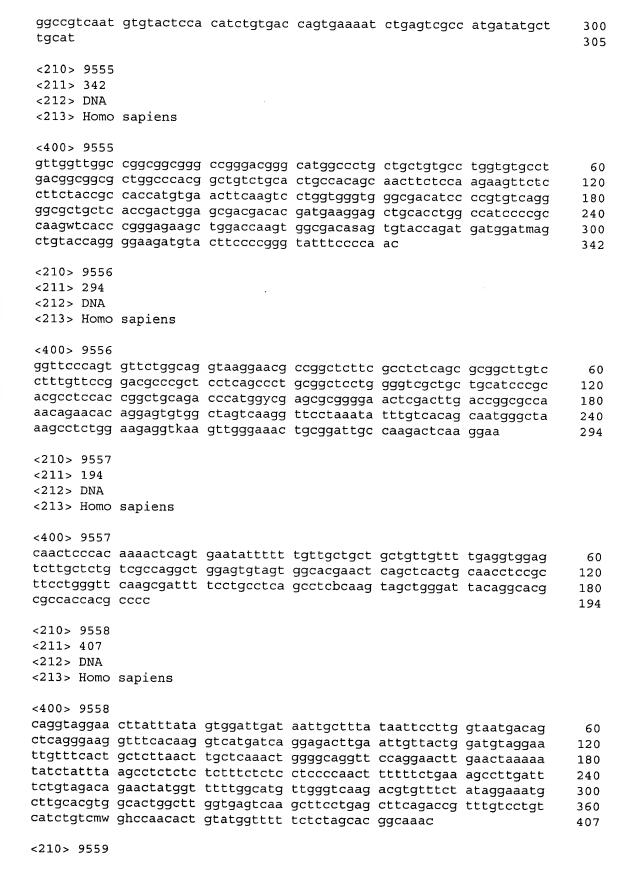


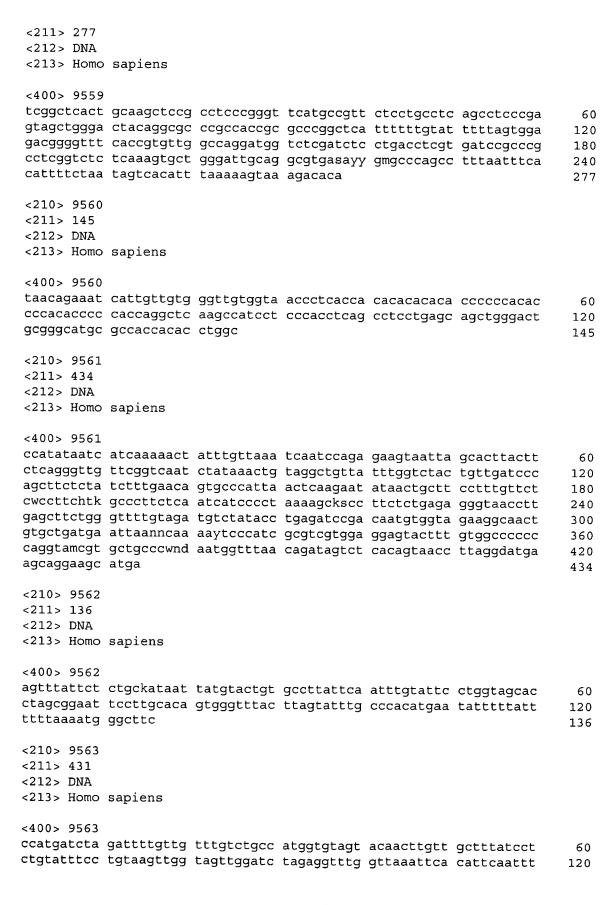


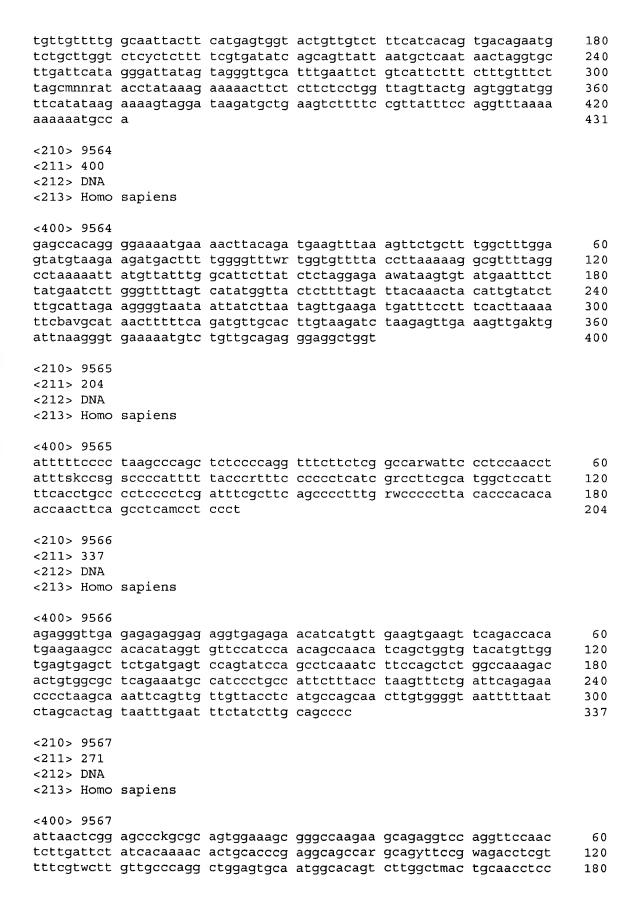
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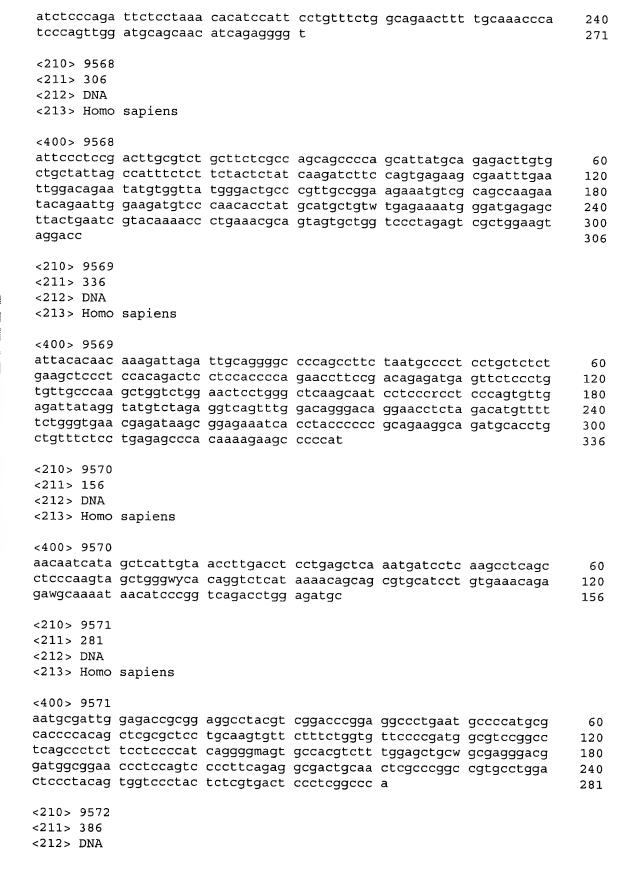


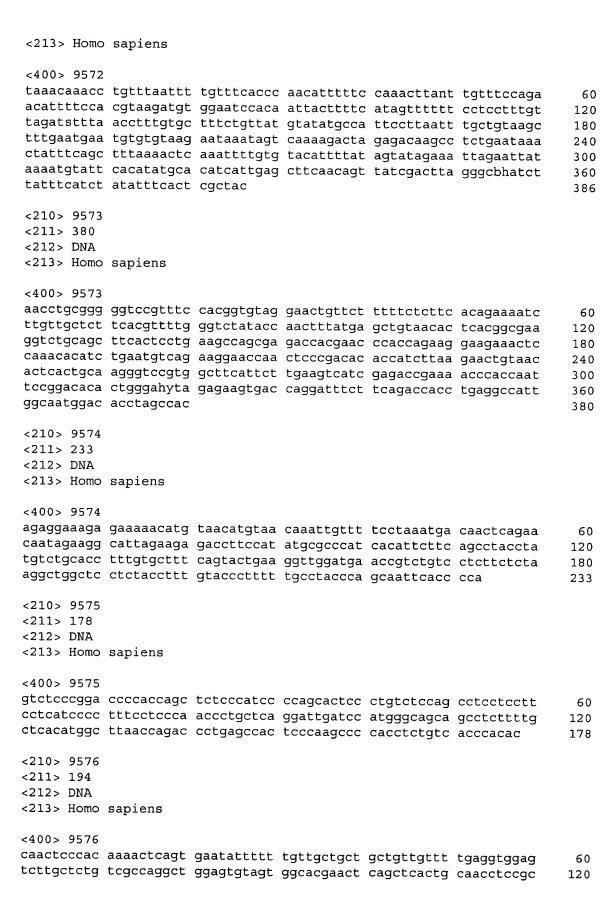








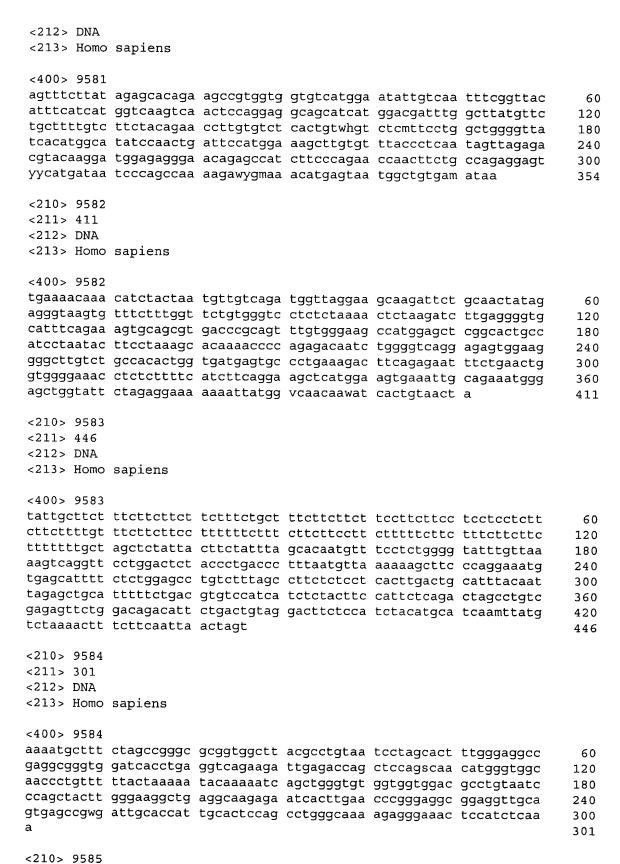






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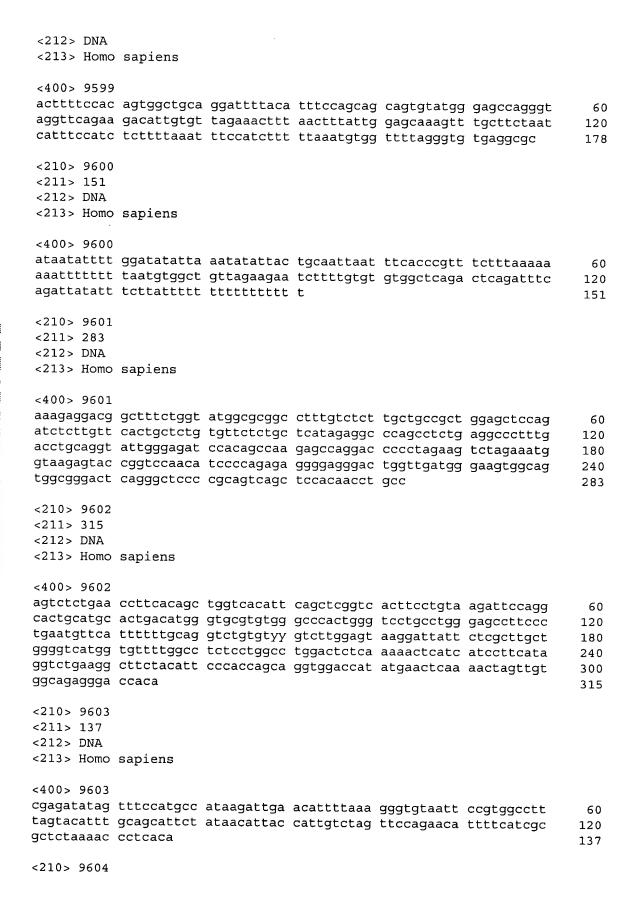


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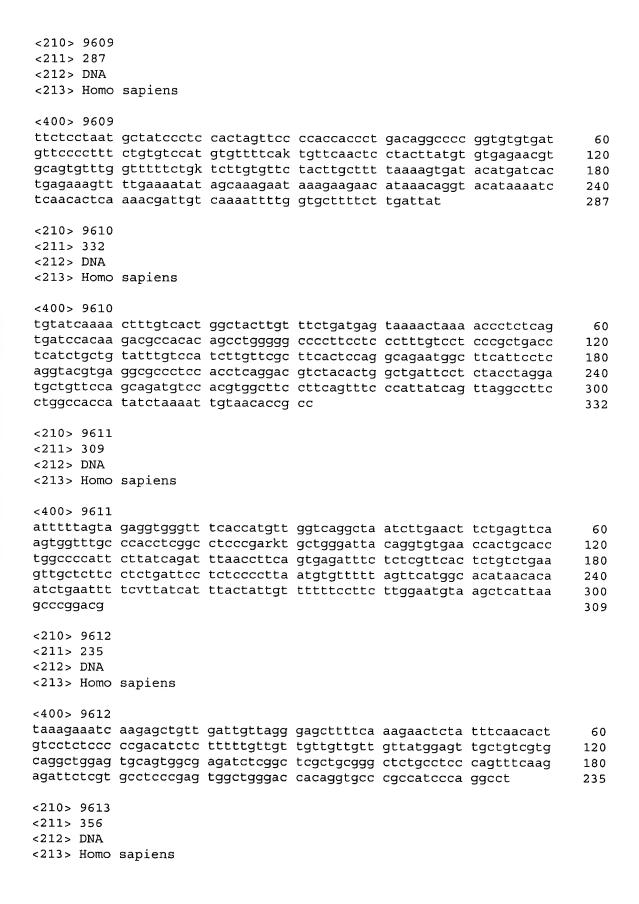
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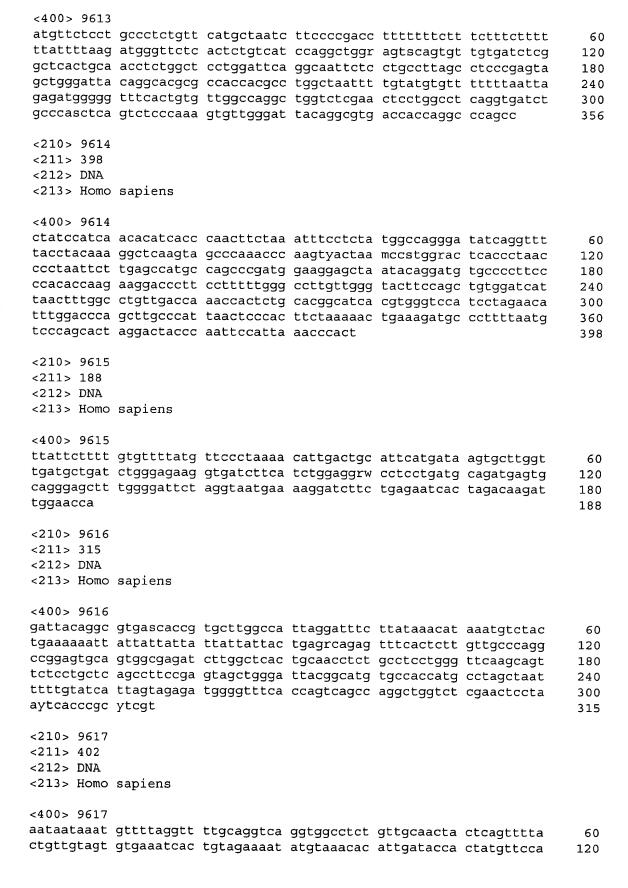


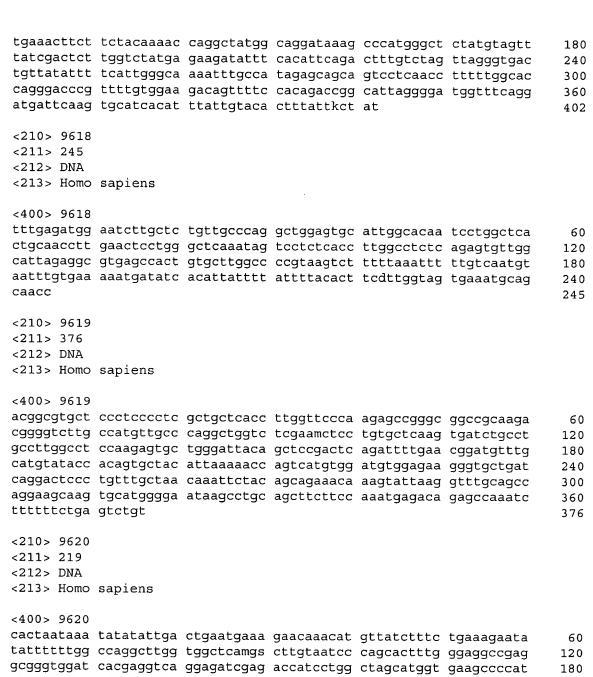


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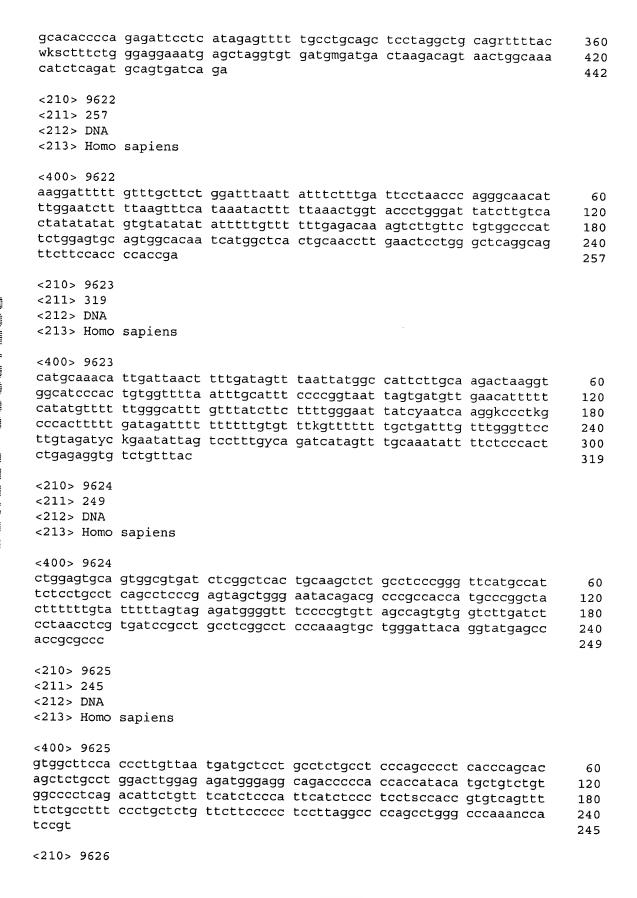


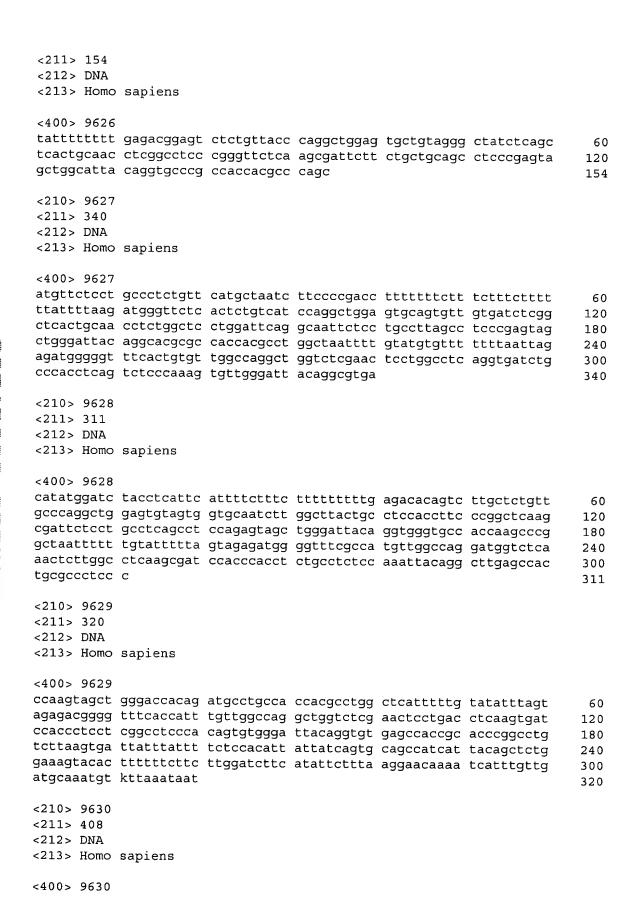




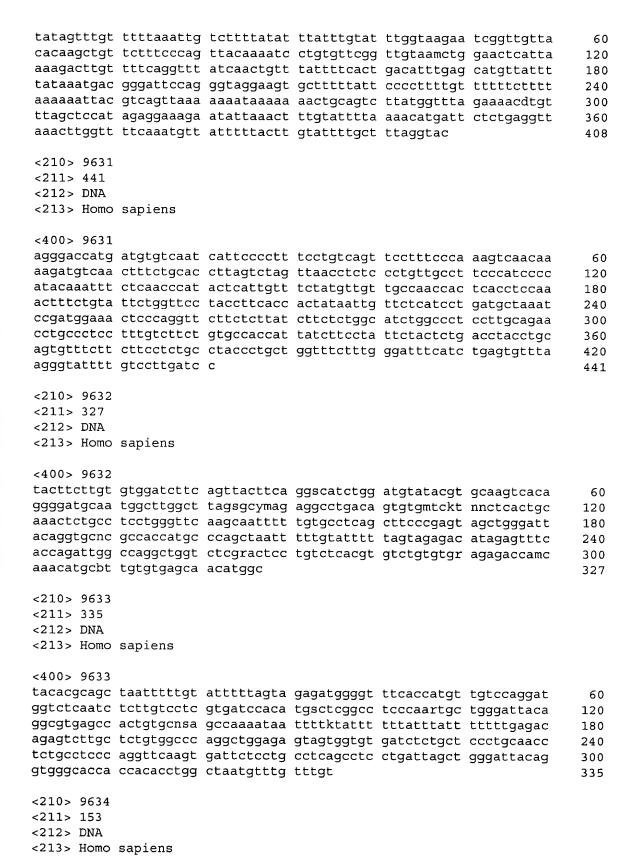


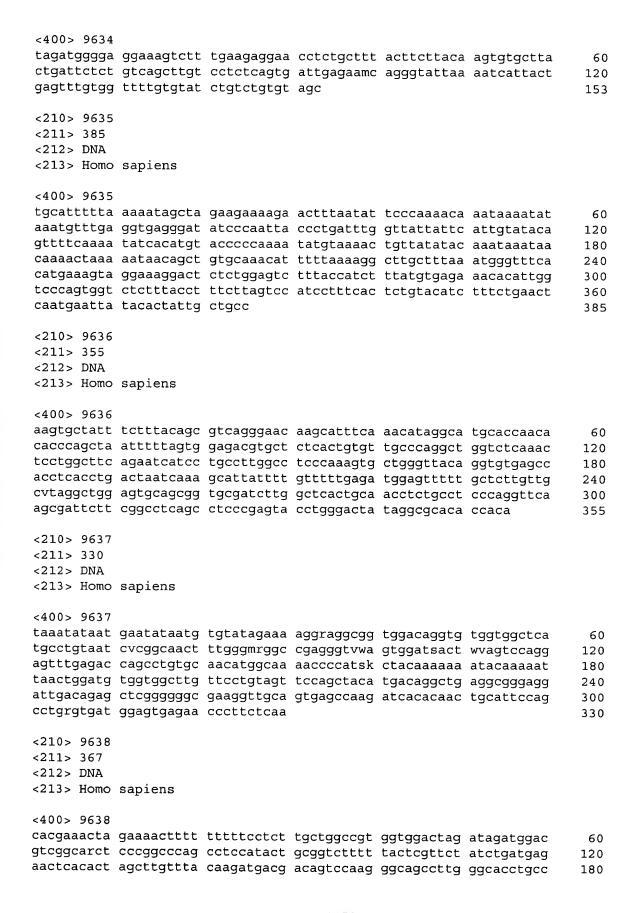
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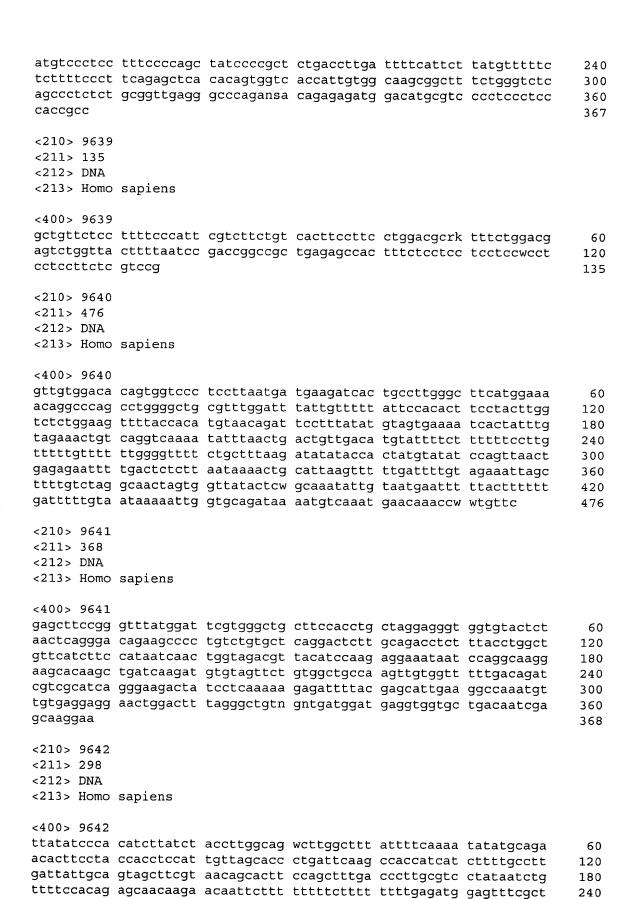




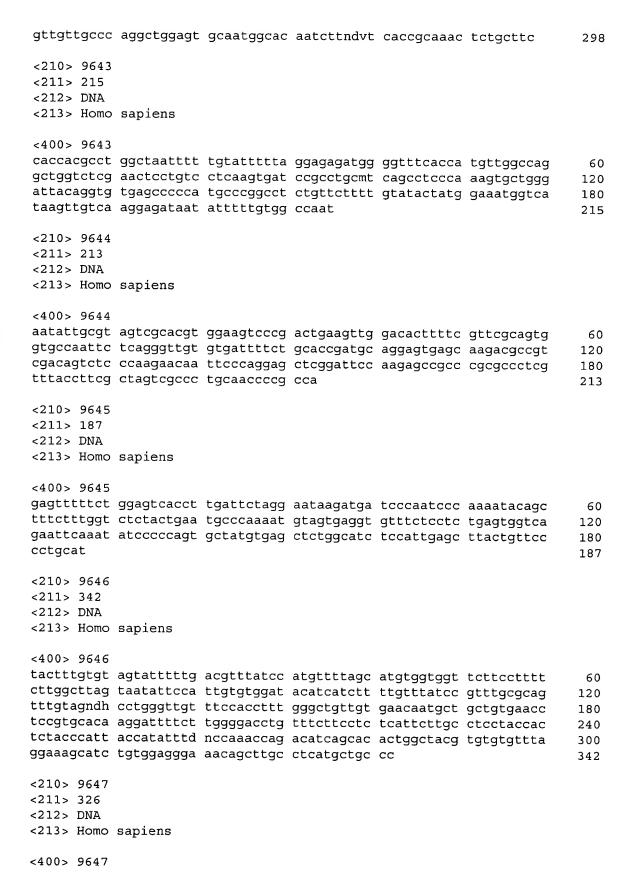








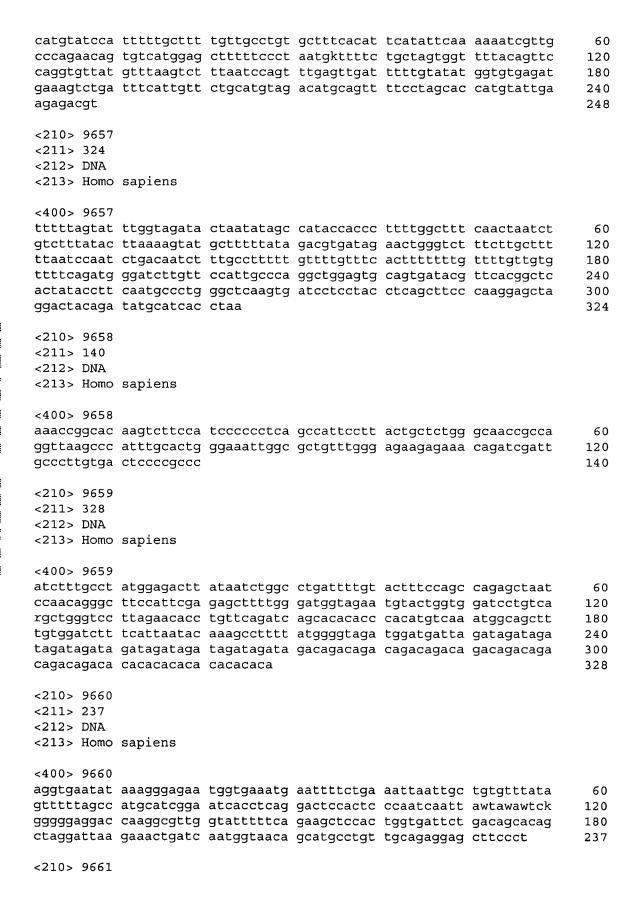






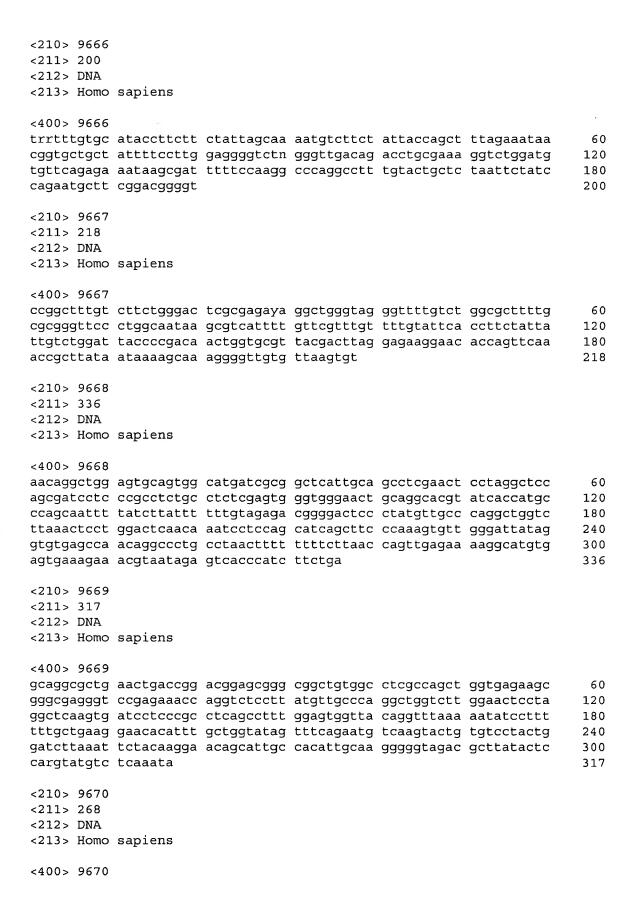
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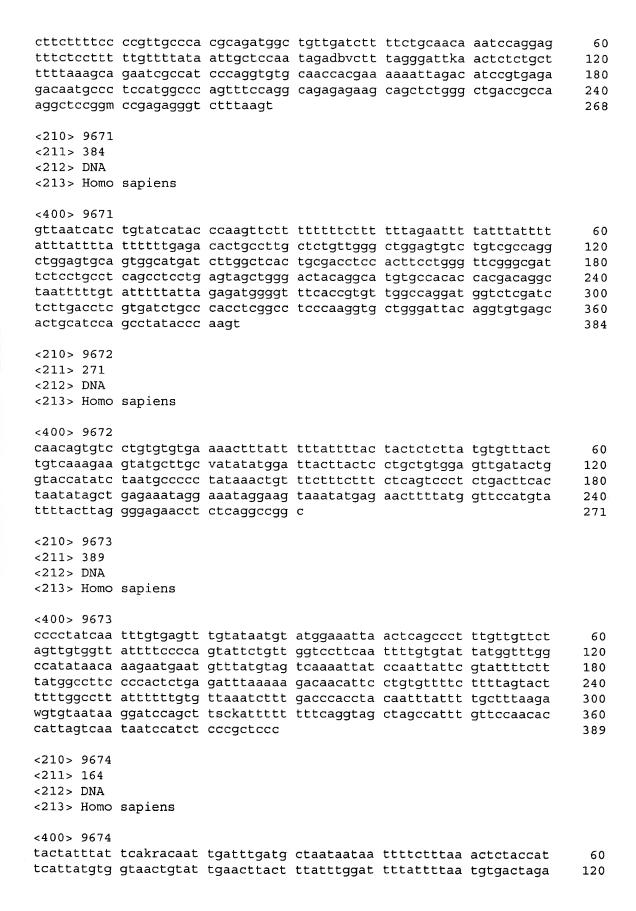
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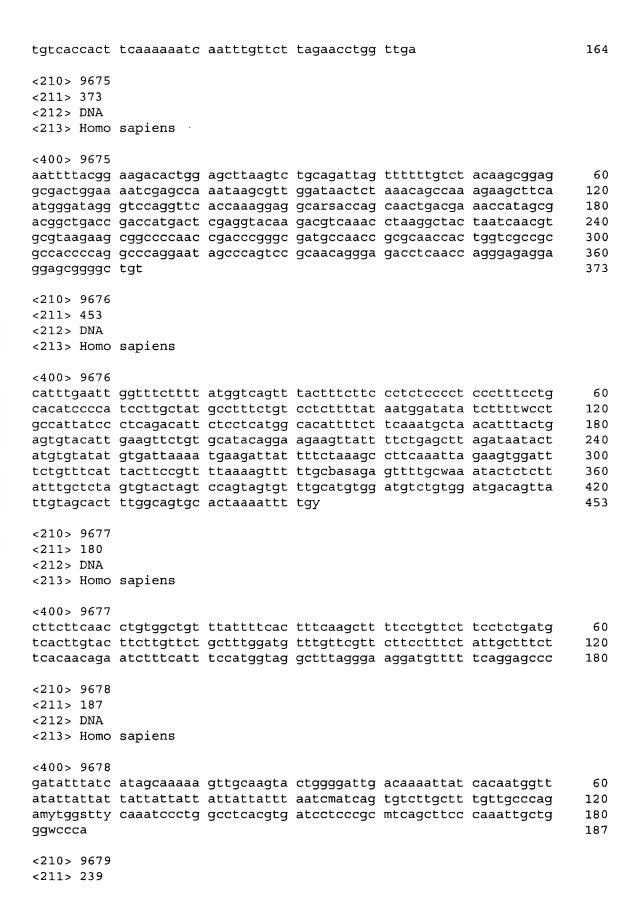


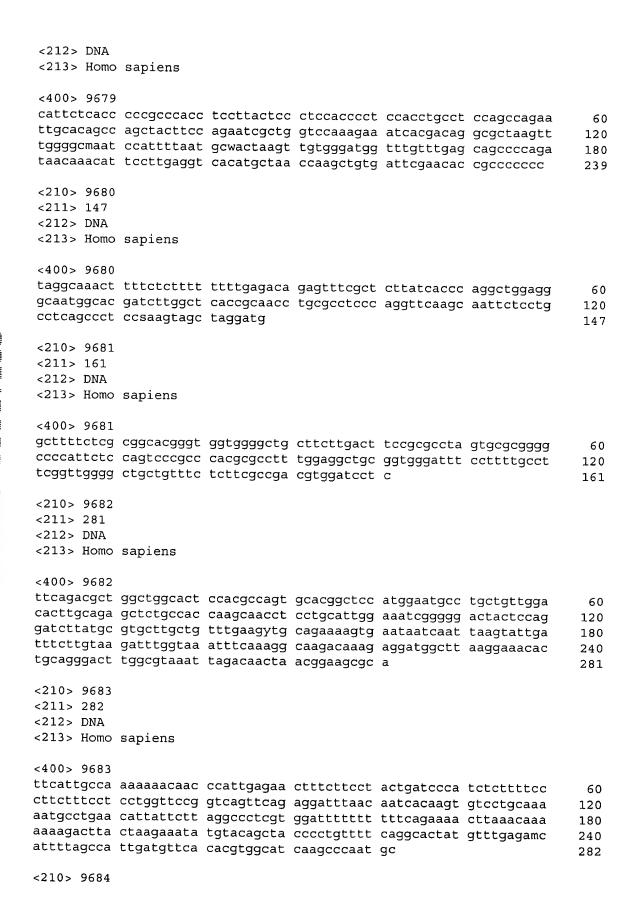


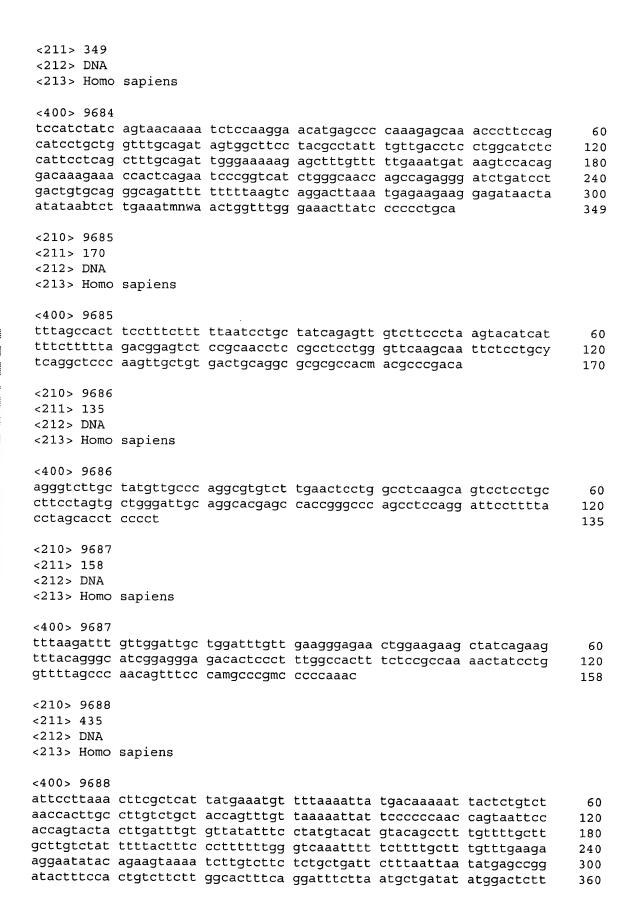
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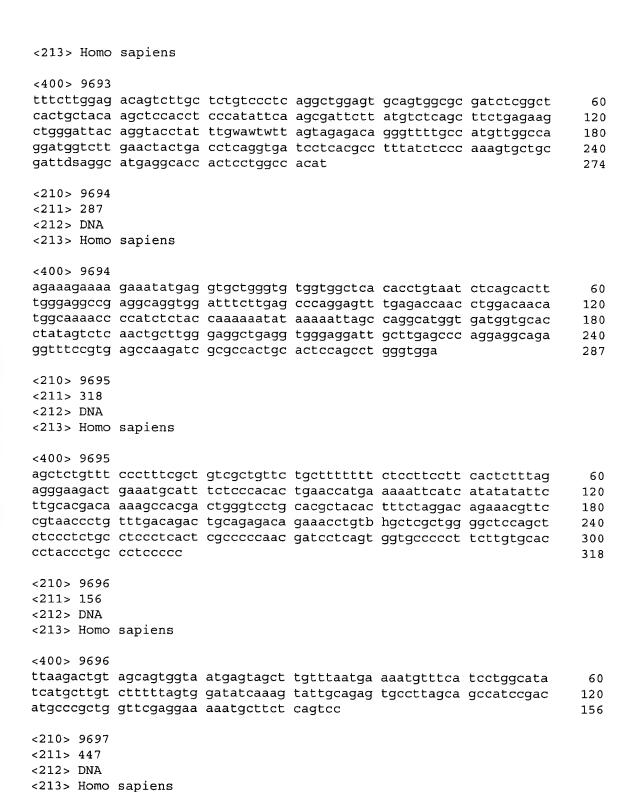




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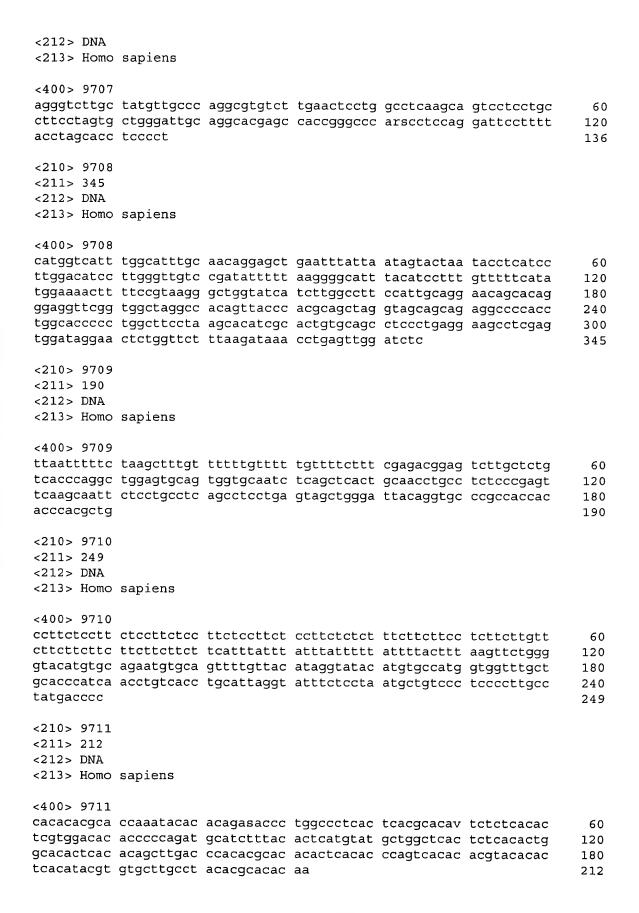


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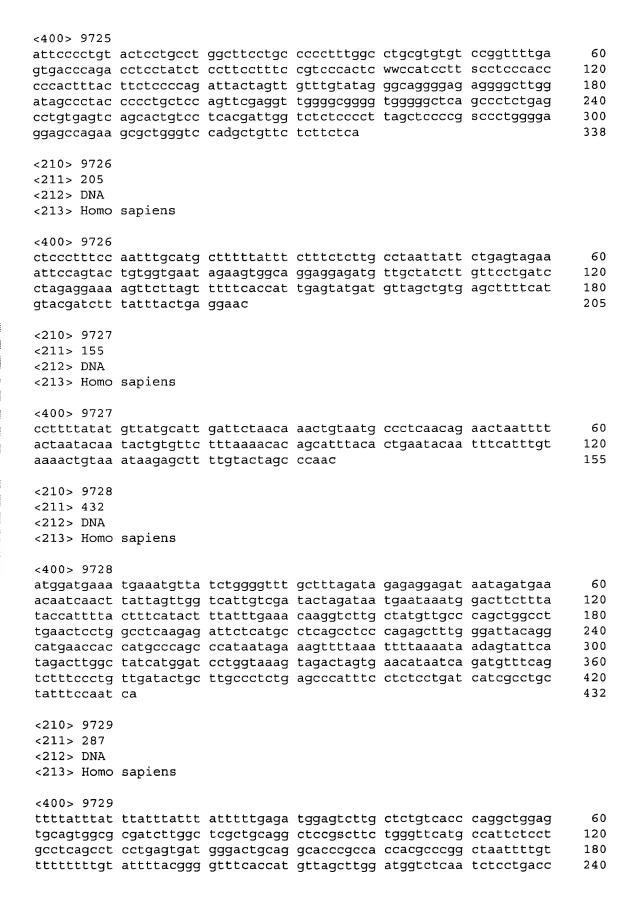
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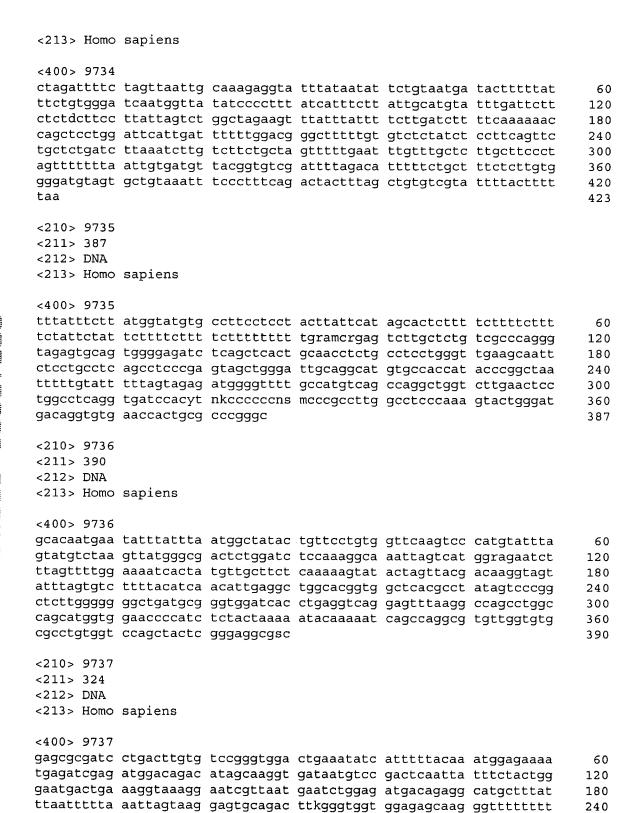


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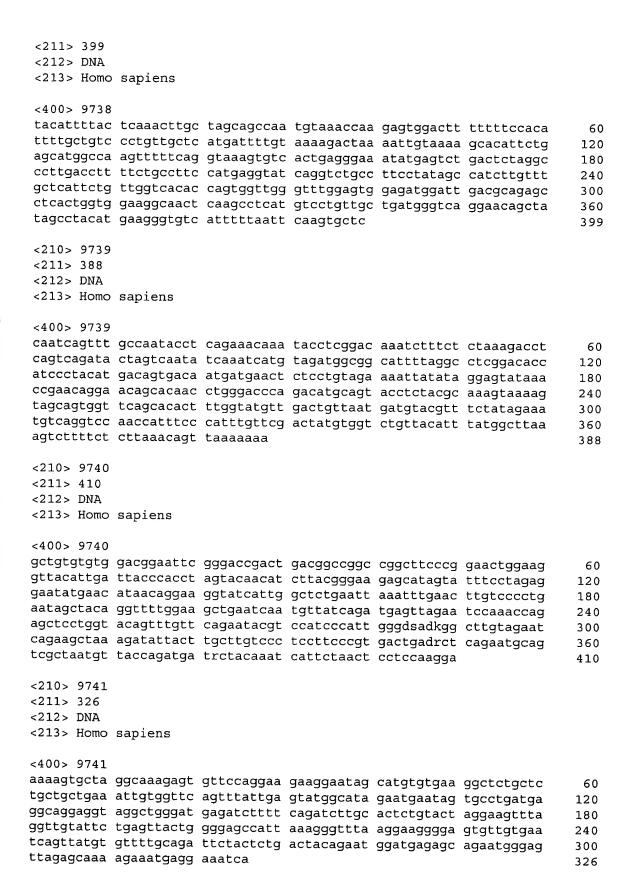
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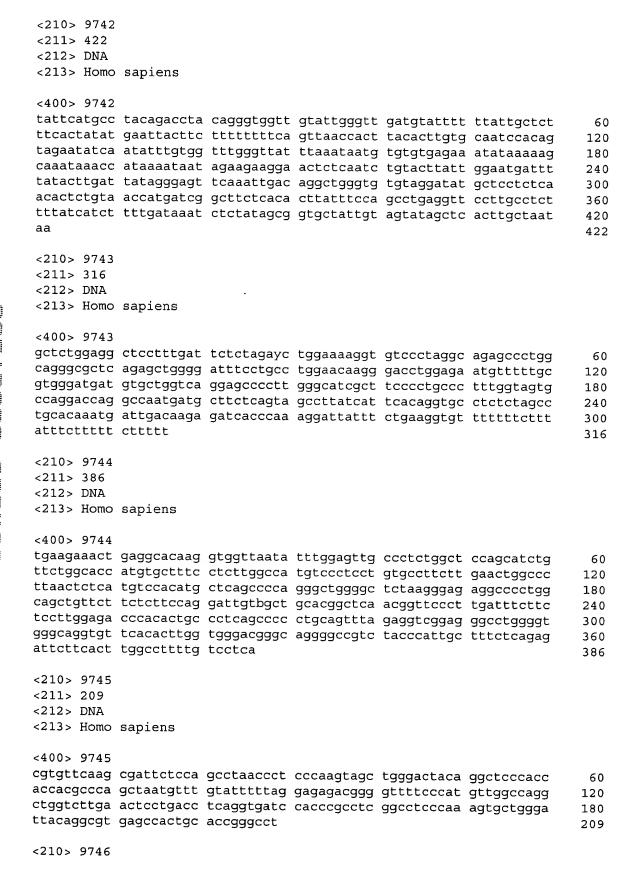
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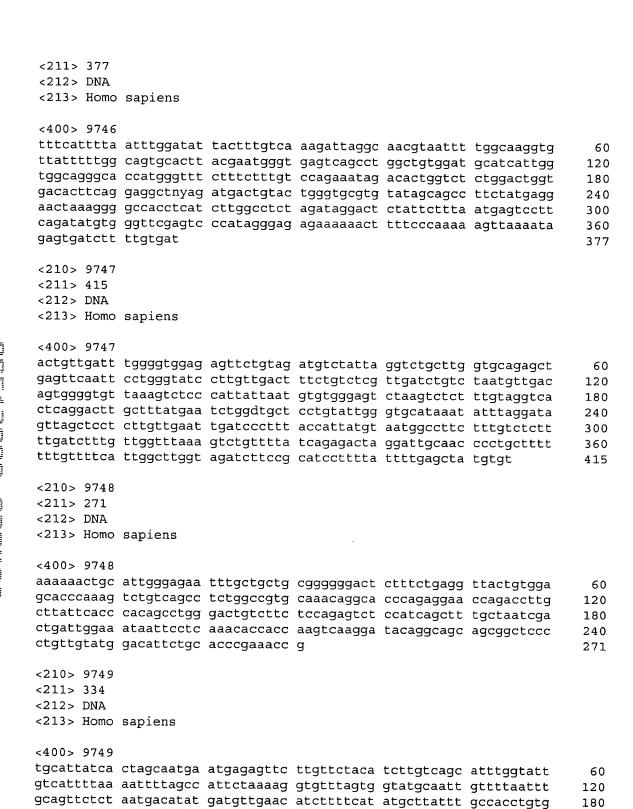
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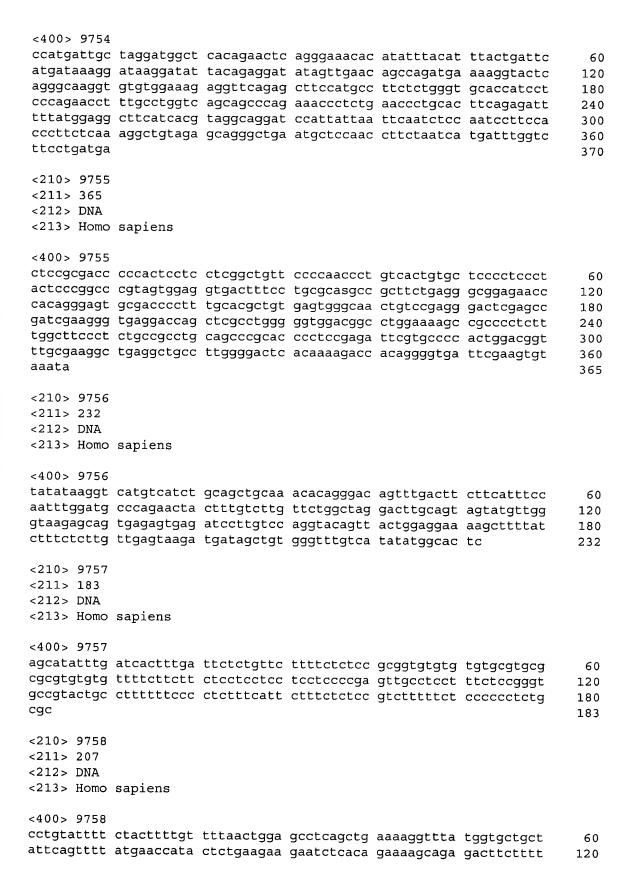
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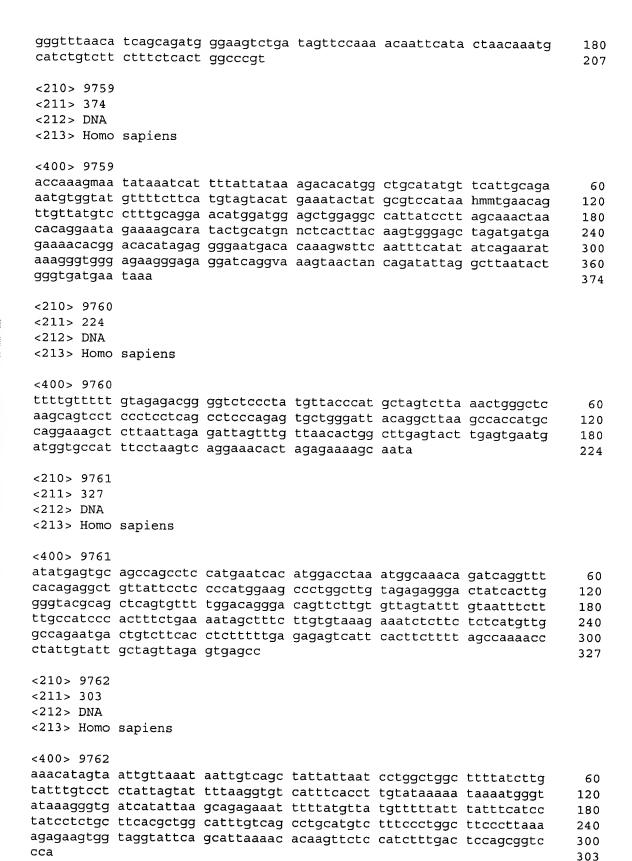
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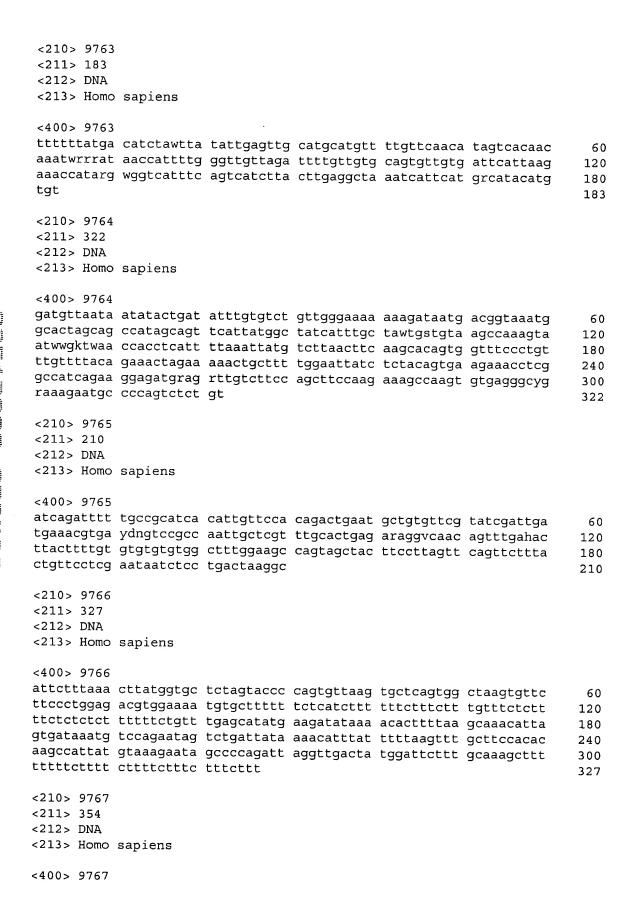


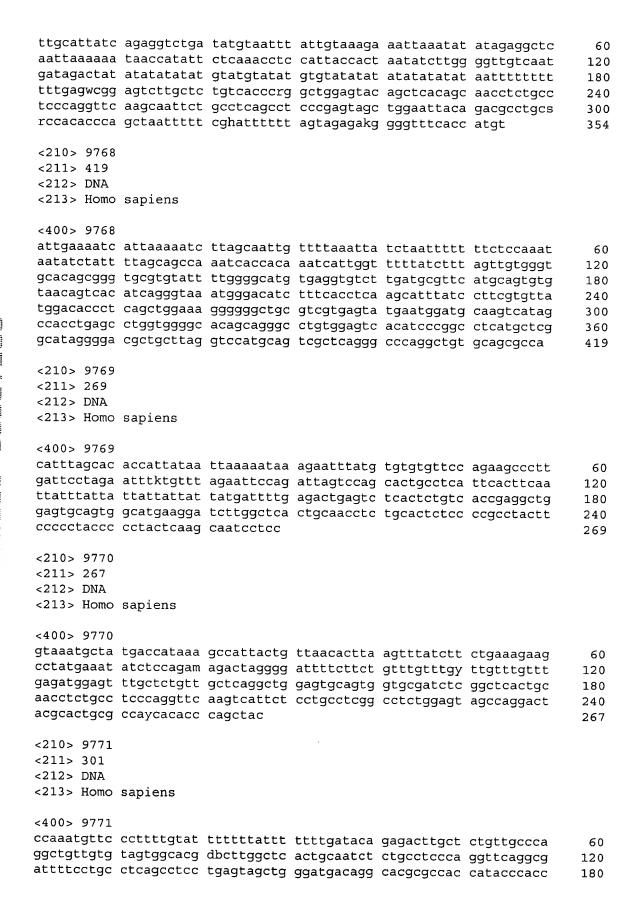
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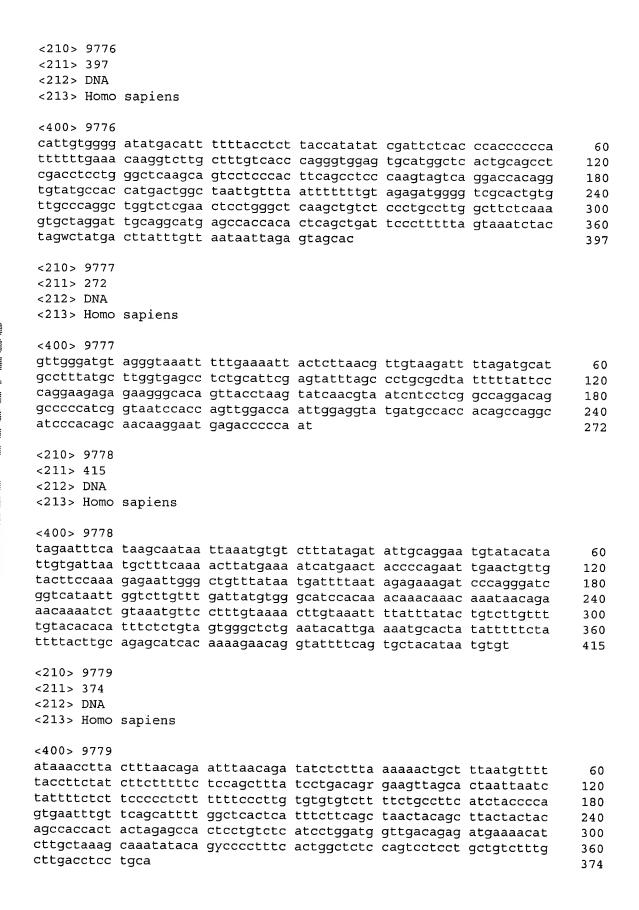




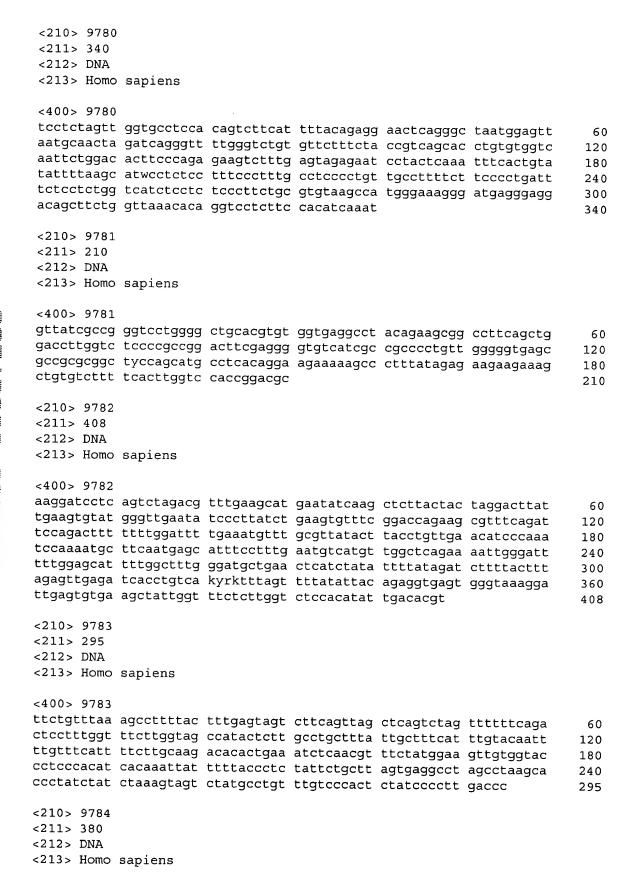


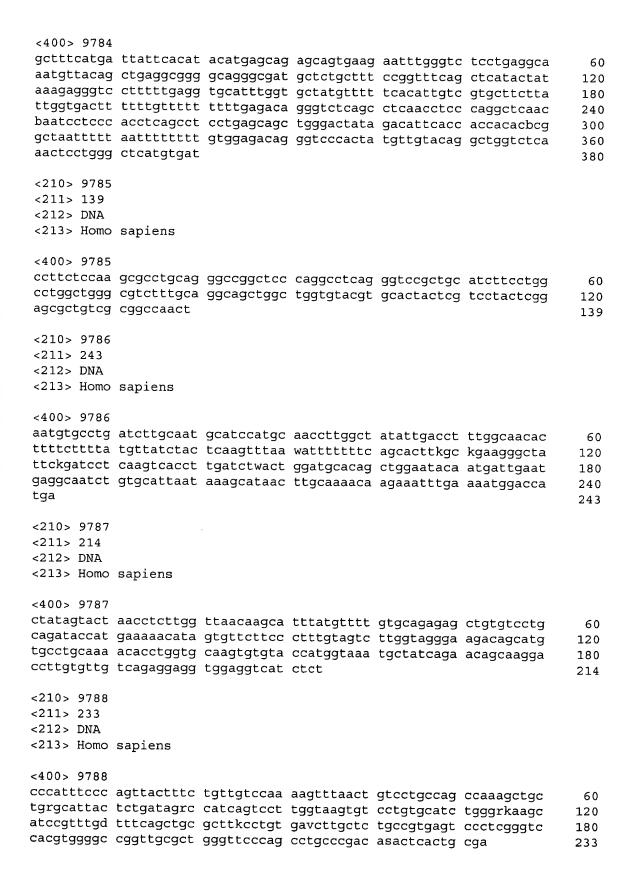
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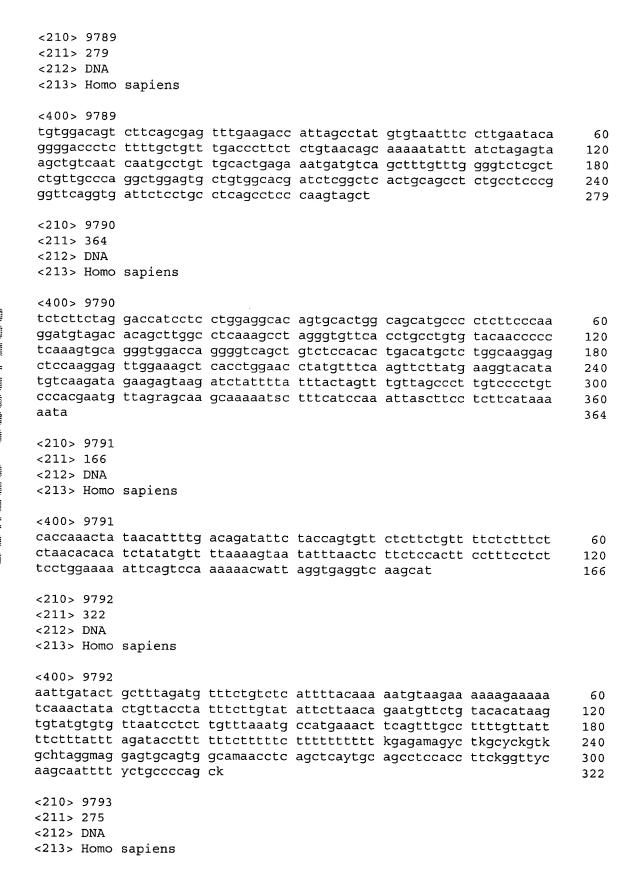
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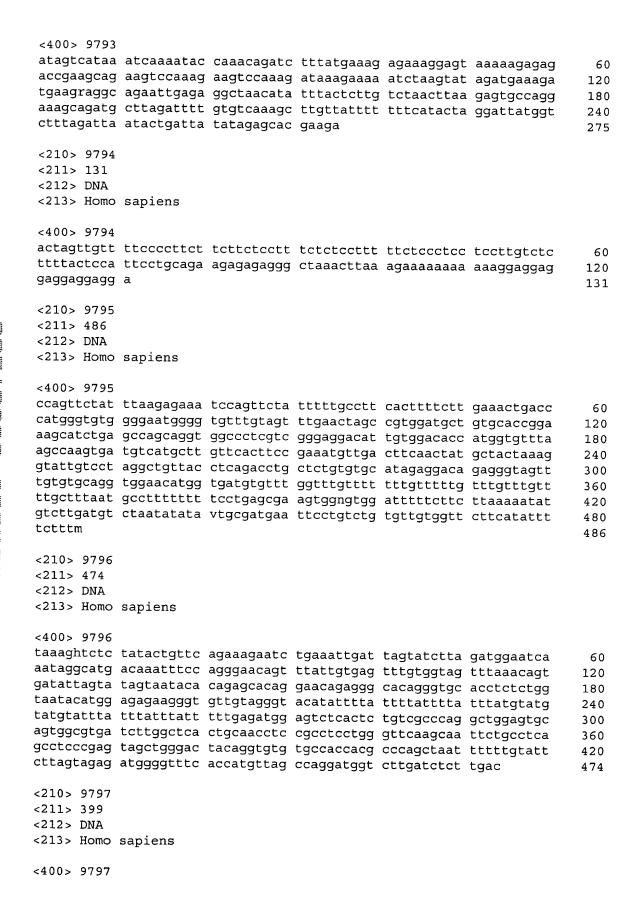


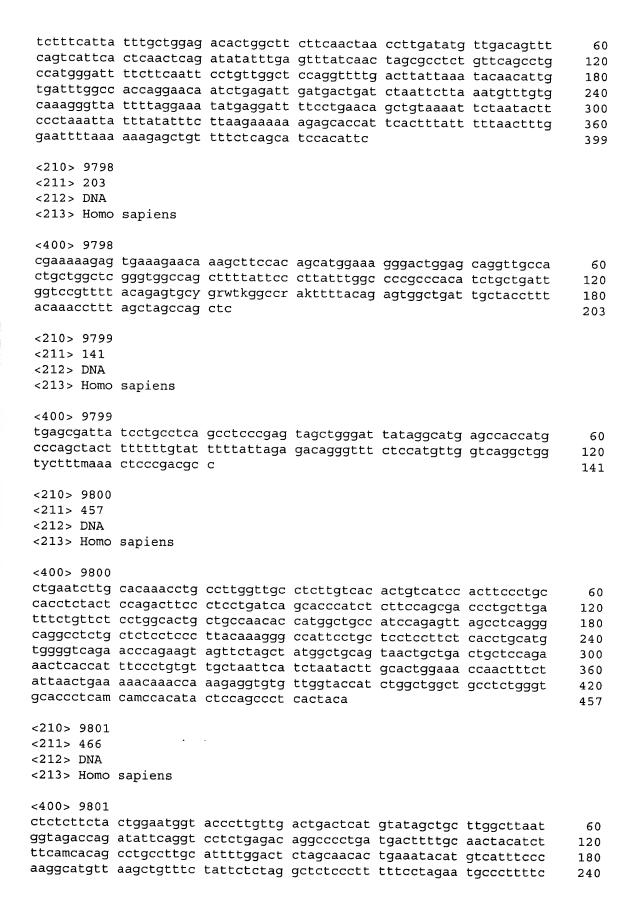


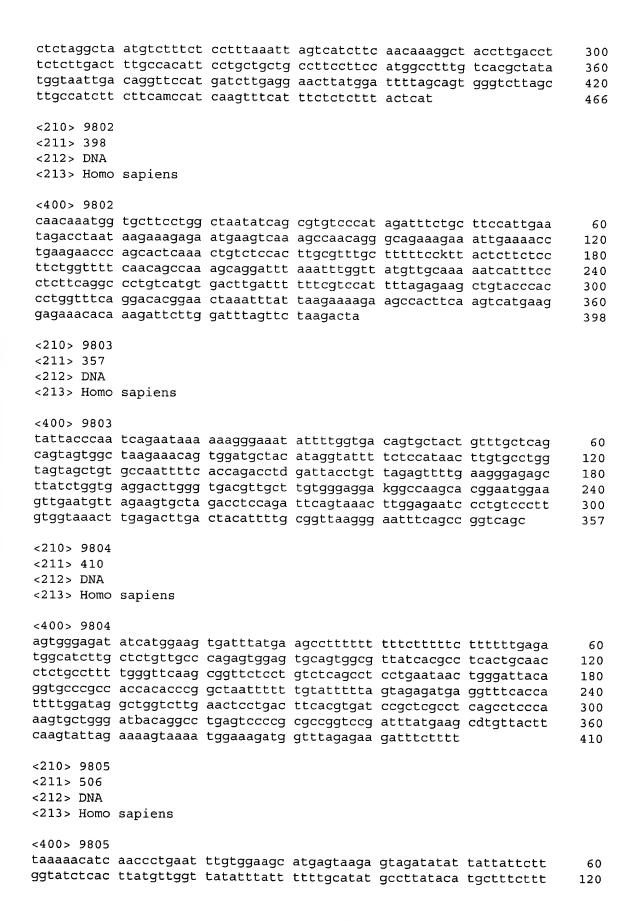












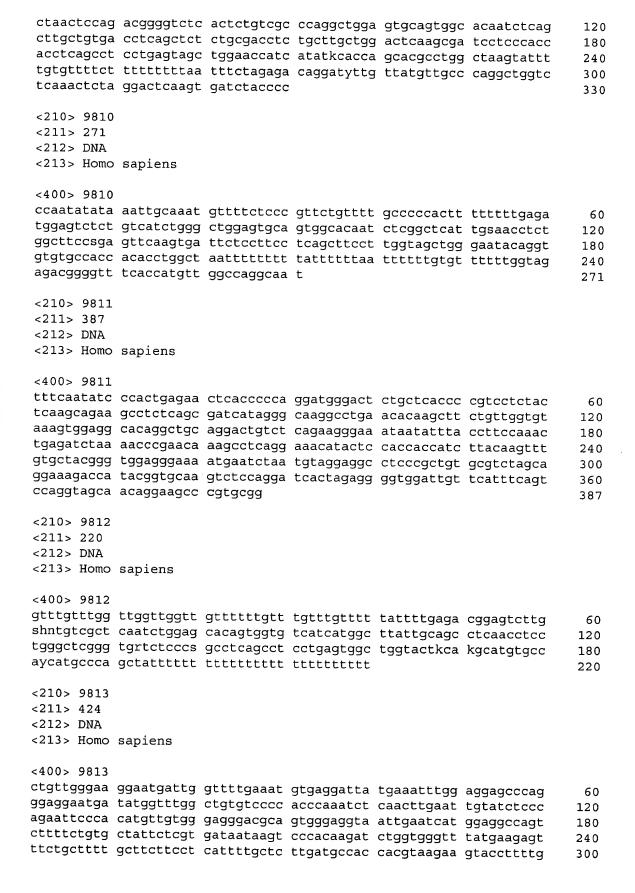




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